



	œ.	

resignation of the state of			t many and the second and are a	The second section of the sect	,				
							5. Šiji		
			-						
						•			
	141								
	•								
			•						
						.5			5. 9. To
	T								
·									1.
		10 y							
								F	
	a 1100 - 1000.							V	
								V	

	•				
to i					
	,	•			

			4
			\
			•



Digitized by the Internet Archive in 2017 with funding from CLIR

PEARSON, O.P.

JUNE 1950-JUNE 1954

1- COLOMBIA, S.A.

JUNE-AUGUST, 1950

Catalogue nos. 1997-3247

Journal

SPECIES Accounts

Birds, Mammals, Reptile

2-Misceccaneous Localaties (Teton, Wyo.; Lander Co., Newda; Gila Co., Ariz and California counties. August 1950-November 1951 Catalogue nor. 3248-3369 Journal Species Account, Mammal

3-Peru, S.A.

DECEMBER 1951- May 1952

Catalogue nos. 3370-3938

Journal

SPECIES Accounts, Birds, Mammals, Reptiles

4. Miscellane ous Localaties, Washington, New Mexico and California. July 1952 - June 1954 Catalogue nos. 3939-4036 Journal - Species Account, Bird



PEARSON, O.P.

COLOMBIA, S.A. JUNE - AUGUST, 1950

Cataloque nos. 1997-3247 Journal Specie Accounts Birds Mammals Reptiles



CATALOGUE

	A

1950 3 2 km. 5 Villarieja, 1400 ft, 1+ mla, Colombra
franc 7 shall innature: () topsenorma 1997 & Tyranum melancholicus trates 2 no. no fot. Topenous. 389. 41 gm. Testis 12 x 4.5m. sudlant fot. shuft 2001 3 ... 2002 9 Lyannus melancholicus Tringfolbella. Mofot. Skullinnsture June 9 102 × 41 × 9 × 12 20038 Molossue major major Sport mother teater 4 m, flatogno fot. govands messed in sound
nothing sound
31 gm. no brood patel to the flatog. 2004 & Sporter minuta 2005 87 Colombogothina passerma teater 4 mm. skall mustare (1). nothing. 2006 3 Crotyphogo sulcirastria 2007 9 " Ting follille arting. " " swell soult for Follille small 1 /2008 of Tyramma melancholicus 45 gm. swell ant. for Follille small 1 /2 2009 of Zenordura (mourning dove) testes 13mm. Mathing sand 2010 & Colims cintatus 117 g. testes 8 x 4.5. 2011 4 Column cristatus 849. good not found, swaly not breding. 2012 & Fortier conspicillatus 23 gm testes 6x3. Nobrod potch 2013 7 " 24 gm. Overries with no researable folkeles. No brook patch 2014 8 Spermosphila minute 7.5 gm. Testes 444. no brook patch. Shall adolet. 172 km. SE Villanya, Hula, Colombia Eoppin oundant ready to lay: follows 14, 5 4 mm. Two or 162 gm. more suptimed follows. Mo brook patch. anomies testis 4 × 2 m. polo olive coor. Skull adult 2015 & Coliner cristatile 2016 Tyramma melancholicis 7 gm. testia 9×4 mm. no brood patch into fot it some fait
2017 Cohumbigallina passerina 32 gm ovaries with small follicles < 0.5 mm
12 gm. 86.90 adult Brood butch de-leathers ovaries with small follieles < 0.5 mm. 2018 & Hylapliha 12 gm. Skull adult. Brood patch de-feathers

17 1/2 tem SE Villaireja, Huila, Colombia

2019 # Hylyphens 12.0 gm. Testerting, 2 mm. Shall immobere 31 gm. testes 8 × 5 mm. Skull menture.

Overy mith way andl

8 gm. Skull montaire. Swallant fot. follieles (= m. 2020 & Columbigallina 2021 & Hylopholus fine 12 testa 3 x 2, Pole olive color, no fax. new distal frimanes. 2022 & Tryrumm melancholius 37 gmo. Orord potek dry + scaly. 2023 & Symodor bogotensis 267 × 108 × 33 × 19. Teater 16 × 9 mm Sheliton only Mose amus 19 webes. 5 & lbs. puddle in savama 2024 & alligator 2025 In Signodon 2 mandelle andy from storrock of, whome.

2026 9 ? lop plunge. Nothing sound Inner land to shall investigate in to I m.

Down love of the to 2 mm. no lot avong large, falls. up to 2 m. no fat 2027 4 Columbigallina passeuna 32 gms. Brodpatch defeathered Shull manatine 39 gm. Brook botch dry, sealy. Testa 3x1 Plumage not lady worn as in 26 30. Shall imm. 2028 & Tyranme melancholieus 2029 & Compaylorhymen 55 gm. no brood patel. Tester 5 x3 and 2 2 x 2 2 Overy with many ting botheles less than is m. 2030 4 52 gons. Thunge much warn. Shall adult, Ihm Ame 13 testes layer serotal 431x 14 x 94 x 58 2031 & Sylvilogus floridams fougatus 2.8 lls. Brood Fatch defeathered. 2032 L'Aprolletis allescens 16 grow Abull immature. Sonds not found. molting. Brood patel re-feathering 16 grus teolle Im. Shall more implus ther 2032 avangaction, are suptured folliele and one 2034 & Columbigalline passeine 30 gms. No brood patch. Ordert verylarge- 6 mm. drien mot morting. Ihim not soret. 24 gms. No brood patch. Jargest fall. less than 1 mm mothrood patch. Teatre 5×2½ and 2½ and patcher as in 2029] 2036 & Campylorhynens Plum e much worm. Some very old (air feather, nour 2036 & Campylorhynens Crorymith: ruptured follide, con a conforma later. Ovidert large 18 gms. Brood fortel de-feathered. Shot in small bush within Skullimmeture 2037 & Synallapus allescens Skin not saved, 399- Testes 8x4. Moment 2038 8 Columbi Ilain not saved 349. nobroadpotet. no monex testes 9x4 20390 O Shin not soved 349. no brood potch. Morngolt. testes 10 x 5 worn shin not saved. Brood potch dry + scaly. Tail feathers somewhat 449 Overy sund, no folls. larger than 2 m. Shull adult. 20408 " 2041 ftyramm



17/2 km SE Vellavieja, Huila, Colombia locating. Stowed with grasshopping + burd 364 × 11 /8 × 5/4 × 2/8 wicker 12 lbs. crong not at the area . Shallimenture. present mor defining its grave. mor brand patch. Shot with 2044. Mor song. 2042 & Carried Dusingon thous 2043 # Syrollyis allescens 2044 8 16 gres · mobrood entel. Testes 2 x 1. Shall innet. testes 4 x 3 mm. 2045 8 ? I gues Brood fortal de featheres. Shall not quite mature Shall immature. 2046 + Lyvollatio allescens 18 grus, no brood patch, avoylorge, numerous bolbelle up to 2 ½ mm. 2047 9 Hylyphilus no broad partel. Skull immortane. Being fed by 11 grue. Ovory small with ting folliles. parent whom shot. 11 grue : Ovory small with tiny folliles. 139 gus · Looks adult , Testie 10×6. To skin 2048 & Colinna Shim blasted, not saved. 2049 of Forpus Forpos 26 gen. Testes 273. Fools adult, some new blue rump spend on the rump spend of spending in Spend on the sound of spending in the spending in the spending in the spending in the spending the spending the spending to 20509 2051 & Tyromen 42 gm-Brood patch bare, sealy Shall adult Testis 8 × 5 (sec), Shall mature, no fat 2052 & Synallatina allescens 16 grus no brood patch. Save alarm chipe. 2053 & Hydophilus 11 gins . Grood patch defeathered . No fait 2054 8 Colinna cristatus 142 grus. Tistes gray, 10x6 2055 & shall and lasierus 3 sulyes it hom, Brunges 4 m. mostly grey, no white under tail 2056 & Mouring dove Follows up to 6 m. Draw. 2058 4 Sylvilogus Testes large, about que. but shot up Toctating, no enbry 17.5 × 1.0 × 34 × 24 3 lba. 2059 & Forpur conspiculatus 26 gus. No brood fatel. Testes 6x 32 and 32 x 3. of Tyransus melancholicus # Ogras Brood patek bark, scalz. Overy with folls. < 2 mm & Testis 8 x 4. June 12 Senh., 8 m CR., Mesorling. much marray 215×97×24×16 2062 & Cryz Jygodonlongo lasuren testes 11×7 m.

2063 3 " Zygodontomps lasiums
2064 8 " Zygodontomps lasiums
2065 8 " Zygodontomps lasiums

215 × 97 × 24 × 16

testes 11×7
23 0× 103 × 24 × 16

testes 10×6
202 × 87 × 24 × 16

testis 8 Hide not prime.
165 × 72 × 24 × 14

			,
,			
		·	
		•	\

171/2 km SE Villaveja, Iduila, Colombia

Ovary lorge, 3 folbiles 2 mm. drawn. 2066 Expraldira albercens 16 2 gran, Belly refeathering, Skull mun. Shall hunature 2067 Columbigallina passasia 32 gun. Belly refeathering. Testia 9 x4. 2068 \$ 5 " 28 gm2. " Testia 32 x2. Self testia 4x2, 4x2, 4x2 2± x2 (right) 2069 of Forkus conspicillatus 23 grus. my brood patel. Eggs in aird . Overywith colleged bollie and 2070 p another 8 rm. drawn. Selt 1. testis 4722, 1 3 x 3 might. 2071 24 grus. No broad patch June 18 135×65×20×13 testa 5 m. 20728 Oryzonop Zygodontomp lasurius 2073 Hetrouge anomalus Spermophila 237 × 126 × 34 × 15 testis 7m. 2074 & Sportphila minuta 7 grus. Mobrood patch Testis 6×42. Skull adult-shull apparately entury immature, but shot through top of 16 2 grus. Mo brood patch. Testis 4×3. Somewhat. 2075 & Syrallopis allecens 2076 9 Columbia allina passeria 8 gurs Ovorglorge, largest follile about 12mm.
Sane as 2045 former worder frame testes 4mm, nothing said . Shall about
2077 o small rest around worder Inmost seep at also of Sanowar Same as 206! 2078 small resty or chorolate dove 43 gm. Testis 814. Nothing saved. 2079 In must seep at edge of savonna Frog. 2080 2081 2082 2083 2084 2085 2086 En grane of trees. Gralbed shot veres when it fell.
27 gmz. New tail feathers coming in . Shin not saved. lgrand 2087 -2088 o Forpers 2089 8 Haylaphilus Shall speckling observed by intra-ossed bleeding. Cut edge of skull is definitely 2-layered, and parietale feel two hard for a governil. This was probably parent feeding young (one of 2 present was underen)
This are grabed by light fladgling norses. Cleated about 100ft. from 2047 and 2053. and feel.

NOTE

NUMBER

SERVENCE

3012 9

17/2 km SE Villavieja, Iduila, Calombia

In stormed: grusshoppers + gruss 2090 & Heteroghizina & mendionalis 2091 8 any? Zygodontomp laserins 128 × 58 × 19 × 12. testis 3mm.
Testes 12 mm. Ball charact entirely immatry Tester 12 mm. Ball almost enticky immatry & 2092 & Hylofohilus. Stornach most forescongs ero and one mouse. 2093 & Cand Dusiagon thous 353/4×11/4×5 = × 2/8 intes 9 = lhs. 2094 & Cresmontoforms Testis 6 + 4 mm, yellow. Moss - arms 67 m. 2095 Frog. One of two. Sterl gente immoter, 18 gens - mo brood faitel. testis 2x1. about os m 2092. Shall broke odnet 2096 Lyprollotis albeocens 2097 & Forfore compicellature 26gram, no budfatel. If take 3×2, 18.22×2. 209 88 Sporophila Spermophila 8 gma. no brood potch. testis 6×5 2. Shoull adult Over with 2 recently suptimed follible and other follible up to 8 mi. afdrich full of south (from shit) 162 gms. Rev brood patch. Overdret large. 2099 & Colins cristatus This and 2099 flusted from smally same host 3000 8 140 gns. testis 112 x 72. no broad parch 3001 7 143 grue. Francoseg of about 7. Folkelings to 2.2 m. 3002 8 Testis 10x6. my hood parte 3003? 97 grows large but no folks bigger than I m. Some fot. 3004 8 tylopholus Compes 12 gma. Extensión brood patch. Shall adult. Some fot. Shall entirely immoture. See species occumit 11 gms. No brood patch. Osan such, no follo. I sm. 3005 \$ 66 × 16 × 10 × 74. house in early evening micronycteris megalatis megalati testis 2 m. 3007 d 60×8×10×14 Glossophage soricina soricina In room of Lonse Certia 32 63 x 8 x 10 x 15 300 8 8 Glossophaga soricina soricina testis zin room of house 63×7×10×14 8 gus Alossophaga sorcina sorcina Mulosaid molossus major major Som 80/1/11/19×13 3010 8 16 grus. Some fort. Skull immeture, about as in 2092 follicles 12 gras Abobard fatel , Orang tring, no measurable. Holfshiha flampes 3011 8

112 gens - No brood patch oring small no measure

Fredrig in some tree with 3011.

, k				
				,
	•			
	•			V

3034 \$

3035 & Colums

Harging on parch 3013 4 Box Glassophaga soricina soricina 59× 16×10×20 7 2 gur Hanging on porch 3014 & Bat micronycteris megalatis megalatis 59 × 16 × 10 × 2 2 5 z gue. 3015 & Phyllostomere hastatus panamensis 134 x 25 x 24 x 33 126 gm. many spranting lady feathers + primarila- Skin not saved. one of a pair of & . Tools adult. Left testie 4x3, 24 gra 3016 & Forkus Shult totally immature, 3017 8 Hybrahima flampes 12 grus. Testie 1.3 min. Mw brood patel. Sport entirely adult 30188 12 2 gm Sunging 1111 111. Same tree as 3019 +3020. Testis 4x3 30190 12 grus. Teatra 1.2 m. Shall totally runnature.

many spronting body beathers. nothing saved. 30208 " 112 grue. Testes I m. Shall totally immatere 3021 of Cohuns cristatus 116 grue. In coney of 3 to Testis 7×5, duch. Shull immature 3022 & Syrollotis allescens 16 grus. no brood patel. No sound, Testis 7 x 5 Follider 2 2 mm. 3023 & Jodinastrum cineraeum. Duck-lithet grat-colder-vira Plumage adoutt, no met skin not saved 3024 & sporophila 7 = grave tester 6x5 Shall trally adult. Shull immatel, don't as in 2092. 3025 8 Synologies albeoce 15 gus. no brodfatch, testis 2 x1. Overy large, I collepsed bollede and I foll. 4 mm. Skull complete. 70264 Tyma. nowelt. Brad paradelaters . I wohnt large, nothing and Shall confeletity adult. hrothing saved. 3027 8 7 gms. Mo met. Tesha 4 x 5. Collected some shot as 3026.

Mo most Oridist large. Operamited 3 recently superioral probletes,

nother bolists 5 mm. Saved array + Lead.

106 gens. Prix dark. Tarana 37, Broodfortel weedled.

Eggs incorduct, ovary with 3 recently superioral bolists. Saved head.

104 " 37. Broodfortel weedled. 3028 9 Crotophogo ani 3029 9 Testis 5 2 × 4. Shall ummature. no skin 30307 Synallapis 162 gm. No brand patch, no molto With 3031 when shot. Fligned injury. Skend number. morende 16 grus Mr brood putch - Testa 1-2 × 1. Feft testis black. 3031 of Synallaxis albescen June 24 testra 11 × 6 2. Priodock- Tarano 40. Savedhead + Testra 119 gma Many sprouting body feathers & a few primeries.
Ovary with follower upto 2½ m. avident not large bris dark,
104. Many sprouting body feathers, a few primores & tail tarsus 36ordered small Tris dark. Sand shall sowery 3032 & Crowphone ani 3037 4

102 g. molt as in 3033. Overy with folls up to 2 mm.

worden?

[140g.t.] Follisho soft to 2.8 m. m. Mornett.

				,
				•
<i>;</i>				٣
			ν	
	**			
	•			
				V
				•

17/2 km SE Vellaneja, Huila, Colombia

1/2 tem St	Villaneja, Hula, Colombia
3036 8 colina cirotatus	149 gras. Teates 9 x 5, gray.
3037 8 "	151 grus. Testie 82 x 5, grey. Bird fat.
3038 The Cremidofroms	50 m. nese-anns, votis 4+22
30394	49 follate of to 2m.
3040 9	48
3041 5	50 tatie 5×3.
3042 8	47 32 x2.
3043 8	72 Eggs in aidet, 3 collapsed bollide and one foll. 6 mm. 96 anna - Brond batch delethered wrenkled Same flock as
3044 q Crotophogo ani	96 gure - Brood potel defeathers wimbled same flock as. nany spranting body patters and a few ton + primards. Moskin
3045 8 Forpus 26	5 g. Part of large flools, Teatin 3 = x3.
3046 4 " 25	rang sprouting body beathers. No slein: Ovary with no roung sprouting body beathers. No slein: Ovary with no g. Part of large places. No brood parties, medsureable fallilles,
June 2	
3047 Tood	in house at night
3048 8 mus musculus	161×85×17×14 testis 6 m. in Louse, mountages, which manning 146×76×16×13 tross
3049 & Mus musculus	146 × 76 × 16 × 13 trasm
3050 & Bat Glosophaga longiro	
	U)MOVOY O V
3052 9 "Glosofhaga longinost	nis longirothis 77×10×13×16 That preg. This and 3050,3051, shot in shallow is longirothis 69×10×12×15 care in dry wash
72 km. E Villan	eja Harle, Colombia
June	
3053 2 Marmoso mitis	Testis 10 m. That in bushy tree at night. 294×170×20×23 49 gms.
Aure:	27 Spranting body person and til kathers in shin
3054 & Tyranna melanchol	1 10
3055 8 Chemidylahorus	Shedding, Mac-ama 84 m. Goverso not remont
3056 8	Shedding, More-arms 84 m. Goverso not remore (all in formation) More arms 6/ nm. Testie 6 x 4. "Sruselepper in stomate
3057 8	Testa 5 x3. allin formalin.
3058 Cnotophoga solciros	Testes 8x6. Mothing soved. This Brood patel defeathers. a few spenting body forther.
, ,	ν

.

June 28

3059 4 Lylulogus floudams purgatus #30 × 23 × 91 × 60 3 lbs.

many apranting bredy feathers + primarile.

3060 4 Tyrunnus welandhens ordert fairly large, grown large, follheles up to 3 = m.

Skullentish adult. Skin not soved.

June 29 3061 & Phyllodomid Ionatia amblystis 95 × 22 × 17 × 38 testra 8 × 5. 37gm 3062 8 Jonatia an Mysting 6 × 19 × 17 × 38 testie 015 38 gm Jonatia anthytis 103 × 20 × 17 × 36 40gn Fruit in storme anthytis 104 × 20 × 16 × 36 testis 6×4 34g. 3063 8 3064 8 Jonatia amblyotis 84 × 19 × 15 × 34 tralia 5 × 3 = 24g. 3065 8 Jonatia amblystia 3066 8 111 × 21× 1) × 36 testes 8×5 35g. Tonatia amblyotis 3067 8 Mose-anna 70 m. Testra 3+3 (wayfe cut by shot) Tonatia arblystis 3068 of Cremidofohorus 3069 9 54. Folbelle ufto 12 m. all in formali 3070 8 44 Teste 2 m. all in forushin. 3071 of Comrostrum levergenys in formslin.

Jue 30 3072 & Bat microsycteris megalotis megalotis 62×14×9×22 6 gus 62×16×10×22 micromyclaris megalotro megalotro 69m 5 z g. 59×11×9×2 3074 8 micronycleus magalotis magalotis Cales 7x6 62 × 0 × 12 × 16 3075 8 16 gms. Glossophaga longinostris lo grustris testic 5 = +4 = 98 x 0 x 15 x 16 3076 8 14 gus Glossoftaga longinostris longinostris tratis 8×6 2. 68×0 × 13×16 teatis 8 × 6 2. 68 × 0 × 13 × 16 15 2 grue. Getre CR 30 m. [discarded 2 other late] 70 × 0 × 12 × 16 19 2 grue. Glosophaga longirostris longirostris 3077 8 Glosophaga longinostris longinostris 3078 9 murang 3080 68×0×12×16 Glosophaga longinostris longinostris 16gm 3079 9 Mussey 3079. Glosophaga longinostnis longinostnis 41x 0 x9 x 9 4 gus.

all above cought in culverts under road between Villavilya and Count. Lajas.

ŧ					
				•	
		_			

4 km. E Villouieja, Hnila, Colombia testes 7 x 6. In road arbert 3081 8 Bot Glossophaga longirostris longirostris 62 x0×12 x 15 14 grua went. In wood culvert 3082 4 Glosophaga longirostris longirostris 66 ×0 × 13 × 15 13gms went. In rood culvert. Llors ophego longinostris longwistris 64 × 0× 12 × 16 12 gn Feet + eyelide hasberry kink, bill Codmium yellow 3083 9 64×0×12×16 12gms 3084 4 aramdea ? cajanea profundly, blending to apple green, eye brown. 7 = km. E Villangia, Hula, Colombia
Cuemdoplorus
Cuemdoplorus
Tetre Im Cuemdophorna 30858 " 38 alluto formshi 3086: 3087 Frog (complet June 25 172 km. SE Vallavieja but not catalogued until (oday)

longinostus & la culvert until 3089-3091

longinostus Fetus CR 21m. 72×0×10×16

Moemb. mount. 14 gom 65 x 0 x 12 x 15 Glossophaga longirostris longirostris fetura CR 27m. Glossophaga lorginotiis longinostris 69 x0x12x16 19 gm. tester 6×5 13 tgm Glossofhaga longirostris longirostris 67×0×12× 16 3092 Chemdofehorus Mrse-anns 41m. 3093 & Cremidofform
3094 & " all in bosmalin Testro 52 13 2 Myse - ams 72 m. all in Cornelin 11 62 3094 \$ Testis 5 × 3 Seft testis blacky about 6 min st. 2 x2.

Sprinting a few tool again tropy bestlery seved. all in formalin 3095 8 " 3096 & Polioptila 3097 & Same as 2045 Overy very large with many follows up to 1.8 mm. Oridnet large. This aperies very abundant fere and conspicious because of much noise: trusp, trusp. 3098 & Tyranma melan. and wany body feathers, Sland adult.
Testis 11 × 5. No skin. Follicles up to 2 m. and 3099 & Cremidophorus "64 putty egg broken by shot Filhels

1 ovum each ordet 14xq. Each overy 3100 4 3101 4 6 1 with 1 corpers + foldelent to 2 m. formal. Eggin each organt 16×9. Each overy with 66 corpora later and bollake up to 3 mm. 3102 8 3103 2 11



. P. PEARSON 1950

3125 8

3126 F

3/05 & Bat Glorophago longirostris longirostris (138 gms. 1 body feathers. mor slam longirostris longirostris fate prey. Fetra 28 CR; borearn 16 m.

3/05 & Bat Glorophago Purood culvert. 71×0×12×15 18 gms.

13/05 & Glorophago longirostris

64×0×12×16 14± 2...

3/05 & Moriophago longirostris Testre 9x6. many sprenting tail coverta and 31048 Column 64×0×12×16 142 gm-3107 & Glosofhaga longirothis longorothis" " 64 x 0 x 12 x 15 14 gm. 3109 8 Hylofolilus In save bush with 3109 + 3110. Skull adult 12 2 gm. . Mo molt. Moskin. Testis 5 x 4.
Motorh patch, Testis 2 x 12. Shall totally immeture 12 = gur. numerous spronting body feathers no shin Same termite next as 30 68 - 3167. Testis 7 x 4 2 3110 4 3/11 of Fonatia anhlystis 94×23×16×33 3112 8 Column cristatus
3113 8 "" 108 pm. Tester: 42 x2, black. 14/3. testo 10×52. Fat. Shullenbuch adult. 35 grus. Brood patel dry, scaly. Testie 12×5 3114 8 Tyranna melancholicus 3115 8 Coryphospingus pileatus 14 gree, Sind about . Testie 6x5, Samonly 31168 16 gms. Shull adult. Testis 42 x 32. 16 gms. Shullimm. Testis 2×12 ".

17 z gm & Shull more unnature than 3117. "

6 vary lorge, bollides up to [m.m.

17 gma. Shull adult. Mobrood patch. skin only. 31170 31184 3119 4 July 6 Varus very stort (estrus?) 3120 9 Oryz zygodontomy lasurus 149×69×21×13 17 grun. 344 × 104 × 5= x 2/4 9/4 lla 3121 & Canid Dusicyon thous Vienn odnet, not pry, no some follies. Stored with fruit, grandfers, one long of Cremidoph.

Shull totally immoture shin only
25g. My lood satch. Testis 12 + 1 m.

no bollides visible.

Nothing 3122 Comphospingus pileatus 3123 7 199am, a fledyling, younger Than 3122. sand. 118x21x22x29 testra 72 751 (Pully

137 423 x 22 43 4

136x 22x23x32

no ent.

119 gm

888

L				
				••
	i			
ŕ				
			•	
				`

Tilen. E Villanga, 1400ft, Hula, Colombia Testic 6 2 x 4. Mo molt. Shalladult.
38 gurs- Brood patch dry sealy - No shin 31275 Tyramme mela. 3128 Frog. no molt. Skull adult, Moskin 31298 Tyranıma melan. 3130 0 mylarchus dipikalis 41 gm. Brood potet dry, sealy Testis 10×4. Testis 22 × Inn testis not soved.
27gm. Shullimature > 16 km. NE Villanieja, 1600 ft., Hvila, Columbia 3131 & Duk-billed vices Testia 5 x3. Spull immatine. 17 gens. Testis 3 x 12 not somed.

17 gens. Testis 3 x 12 not somed.

19 gens, crown just spronting. Only two

crimson feathers, rest just shoots. Testis 3 2 x 2 m. Skull adult.

Mothing saved.

Spronting feathers... 3132 de Conyphospengers pileatus

""

crimson feathers, spronting feathers everywhere over findy large with many tollieles, none targer than & 17 gras porting saved. Shull >) 5. 3134 4 3135 & Crotophogo sulcirostro sprouting tal father. Egg in ordnet. 3136 & Coryphospingur fileatus 3137 9 3138 83 3139 & Marmoon mitis

Testes 5 x 4. Shall slightly more mature 15 gras than 3134. Testes not soved. Same black as 3136 and 3138. Shall as 3136 moltererywhere: Sonoth not found, nothing 16 gurs. Shalt totally inmature, savet.

testa 11 × 6 306 × 182 × 23 × 26

(skullonly in ?cat? dropping)

work. 270×147×17×25 testis 4 mm. 227 × 129 × 16 × 20 no enh-217 × 122 × 17 × 19 Skullonly Testin 11m. Flying early among tros over tall weeds. 75 x 30 x 6 x 13

3/40 nuque

3141 9 Marmoso mitis

3142 marmosa mitis

3143 9 marmosa mitis

3144 3 ongo. Zygodontomja lasiurus

3/45 7 Angolia 70 Rhogeisa tumida

i				
				N.
				b
				,

1950

5 km. r Villaneja, 1400 ft., Hinla, Colombia - ?. Testio 4 = > 4. Skull adult. No Good Fall no broad Patel 7 gms. No folkeles made. Skull immature > ()

kull adult. No brood palet

7 gms. Testie 6×5, flobbier than 3146. Skull adult 3147 9 3148 8 7 gma. Tistia 6 = 5. Shall adult mo brood price 3149 8 3150 4 7 gma. Folbilla lisattan zm. Skull adult Focaling went. Sporofotila Sparmoshila migricollis? Spulladult Felbiles spto Im. 3152 skull adult 3153 Spermophila menuta 7 to Mor broad portile. Sharel whilt. 3154 Sparmophila menuta 7 2 nobrod patch Folloles ypto Im Good not found mothing sweed, 3155 Crotophogo sulcirosters 62 gm. a few spronting primaries + Sidy feathers. Same flock as 3155. Nothing saved. 3156 59 " Foldelles repto 3 mm. No melt. Molomb. 3157 Molosens major major 96×35×9×13 129. molosous major major 3158 97 x 33 x 9 x 13 119-Cestis 3 m. molossus major major 3159,8 94×35×9×13 92might byard In brik whent under RR. 3160 In rocks in bodlards 3/61 Book byord 3162 Frog cought by Smith at last camp guly 10, not contered until here. Bark lizard 3163 In brick colnert under RR in dogtime. teatre 8 x 6 stris logirostin 68×0×12×15 15 gras Bat . Glossophaga lo 3165 & Crotophogo am 122 grus. Jano Boch mill 3166, 3167. Teslia > >5 92 gma. Skulimenture. Mo falbeles 3166 € arong muth foldelle up to 2 m. no skin i 3167 2

3168 & Stelydotterys 3169 & cand. Dusingon thous

17 gm. Testis 2 m., Mr brood fatale Skullodutt 352×11/4 × 54 × 2/4 miles. 10lka+



5 km N. Villavieja, 1400 ft., Stiala, Colombia Kridoferocne Many spronting body feathers. Testes 2 mm Shall immotion. Testie 32 >2. 3171 & Camphylorhim 56 grus. 3172 3 In same group with 3171, 3173, 3174 Testo 3 = x2. Skulladult. 3173 59 gme. Festher worm. Overy with no folliles 47 gmo. Feathers morn, Many sprenting body beathers and primaries. Skall ?? 3174 4 3175 of Crotosphago am 88 gms. testie 3×12 m. Sprouting prinairles and many body feathers. no skin mfry 2 l morent. 3176 4 42 gra 84×0×19×20 Vampine Desmodus rotundus 1 fetrus CR 38 m. 43gm 3177 4 Desmodus rotundus 89 × 0 × 17 × 20 mount. 3178 9 86 × 0 × 18 × 20 Desmoders rotundus 32 gra 3179 & Philander Caluromyslanata 680x 405 x 43x 37 pouch young of 3179 3180 8 Caluromys landa 32 gens. 205×105×18× 15 testic 32 . This to 3188 in 3181 of But micrometeris megalotis megalotis 58 x 15 x 11x 22 6 gus-Possibly early pres. 31827 micrometeris megalotis megalotis 8 grun 63×13× 10× 1 fetus 4m. CR 3183 4 micronycleris magalotis magalotis 59× 16× 9×21 6 gun 3/84 X BA 9 gus. Glossofshaga soucina soucina 61x 9x 10x 13 talis 4 mm 3175 8 Glossophaga soricina soricina 11 gens. 60 × 9 × 10 × tester 3 tm. 3186 8 Dlossophaga soricina soricina 60 x 8 x 9 x 10 gm totro 4 m 3187 Glosophaga sociena sociana 6/x 8 x 9 x testo 3/2 mi 10 gm

Glossofohaga soricina soricina

3189 8 OF Carollia

3188 8

3190 3 Marmora mitis

in steel trap banted with barrana 7/x 1/x 1/x 21 testis 7m 2/gra testes 11mm. 306×170×21×23 65 gm.

ggm

59×8×10× 14



5 km N. Villavija, Idrila, Colombia in mousetraf . Testia 8 2 m. 3191 8 Bot Carollia 70×6×14×21 21 gm nonsetrap. Testra 4m. 3192 8 " Carollia 16 gm. 3193 Stelgidofterys 14 gur. Skullodult- Testia (2 x 1.
megalotis Some root-care as 3181-3188 and 3195-3197.

3194 9 Bat micromycturi megalitis 7 7g. 65 x 14 x 10 x 22 preg, ting endego 31950 Box Blossofshaga soucina soncina 109. 62 x 8 x 10 x 15 tatis 32 m. 31968 Glessophaga soricina soricina 10g. 63×8×11×15 testra 5m. 3197 8 " Blossophaga soricina poricinal 09. 65 × 10 × 11 × 14 testia 5 m. (sould)
sprouting a few formaries + ming coverts, severation, and many
1019. testia 3×2. body feathers. Same flock as 3199 3198 & Crotyphogo ani 31998 1089. testra 7×4. No molt. July 23 to ever - Cetia 21412 3200 & Zylindogus flordams purgatus 365 × 17 × 86 × 55 乙克島 in monde trap. no emb. Bananas in stomach 3201 9 Bat Carollia 67×9×13×21 19 grus. much managery trasme. no emb. Placental sears 3202 & Orggorny & Jugodontomy losiums 200×95×24×17 41 grus. testre 7x6 3203 o vampine Desmodus rotundus 83×0×18×16 30gm weent. Saved UG 3204 9 Marmoro mitis 245 × 142 × 17 × 21 25 gm. testra 10x7 3205 & marmosa mitis 274× 163× 20× 23 33 gurs. testia 12×12 3206 Didelphys marsupralis 780×420×61 ×51 24 lhs. lodly tate, not sured, not preg. 3207 4 normasa Villanajo 1400ft.

July 25 [slowld le 24]
Pur stations darring day, plying, creg , smelling 5m.
3207 & Bot myslis nigicans nigicans 72 x 38 x 72 x 12 49m.

Cuerra de Tuluni

Jolina Colombia

3209 & Mazama america 3210 & Out Phyllostomus discolor 8 Phyllostomus discolor 27× 3 = ×11 × 3 /4 inchis late prey, Cotion 33 m CR / 110 x 22 & 16 x 22 49 gm bout teatre 5 mm. 109 x 18 x 17 x 23 . 40 fort

() 2.17

3236 f

fat, loctory. 3212 9 Phylostomus discolor 109×17×66×24 40gma early pregion recently partiment. 3213 9 Phylostornus discolor went 3214 q Phylostomus discolor 114 + 16 × 14 × 23 41 Jun fot 3215 q Phylostomus discolor (01×16×15×23 33gm) July 28 does at night. Testia 6 m. 3216 & Phythostomus hastatus panamensia 136×21×22×30 \$25que Lactating harging next to 3218 in day 3217 9 Bot Glossophaga princina soricina 11 gens! mill in stower 3218 4 " Glassophaga poieina socicina 65x8x9x15 10gus. Separate chester brom 3210-3215, Testra 13mm. shot in morning of out g am but stomet and intestives empty clear might. 3219 & Bat Phylostomus descolor loctating, weemb. 3220 & " Phylostomus discolor location. menh. 33 gum. 3221 + " Phylostomus descolor 104×17×16×21_ 36 gus In oul come in afternoon Testia 11m 3222 8 Bat artilieus jamaicensis jamaicensis 86 ×0 ×14 × 22 43 gue 1 Fruit stone (like cherry pit) Tolbeles of to 4 mm, 3223 & Botowl Steatomis carpensis fusual care with 3225-3227 and Pregrant 81×20×11×18 10g fatura 12mc/ 3224 & Bat Peropteryx kappleri 3225 8 " Peroptoryx kapplen 7 this queck 8 gn. 73× 20×12×16 3226 4 "Peroptery kapplei 10gm. thatha 2 = m 3227 6 " Peroptereye kapplere 8m 68× 17× 12× 16 3228 Rhylaston Viero sunturo 123×21×21×28 77 gons Cotre 3 6 zg. 3229 \$ Bat. Peropleryt kappler 63×16×10×15 80 × 16 × 11 × 17 107 Peropleryx Rappleri techn 3 2 m. 7/x/5x/0x/6 Peropterye kappler 89. 32328 Peropteryx kapplen 73×15×11× /6 Jam. 106×18×15×22 42 gus. 3233 4 Phylostomus discolor totia 4 m. 106 × 18 × 18 × 23 3234 8 41 " Theflostomes descolor much many tissue. 3235 4 107 x 14 x 15 x 24 41 " Phylostomus discolor

Thylostomus discolor

not pres. much fat. 107 x 19 x 16 x 23

38 "

		•		
	•			
چ <u>ر</u> ٠				
•				

40 gm

O. P. PEARSON

1950

Testia 13 gm.
110 x 18 x 15 x 23 3237 \$ BX 45% Phylostomus discolor testis 5 m. 3238 8 11 99×14×16×24 37 2. Phylostomus discolor Ustra 12 m. 372 3239 8 " Phylostomus discolor 106×15×16×23 testie 14m. 110× 14× 17× 22 3240 8 " Phylostomus discolor 459 tisha 12 m. 107 x 17 x 17 x 21 3241 8 " Phylostomus discolor 42 gm 3242 8 SKELETON ONLY Phylostomus discolor 93×14×15×21 31 gras Bogota, 8500ft, Curdinamarca, Columbia angust 5 testra 6m. 3243 & Guygomys (micronygomys) dedi 17 gras! 175×102×23×15 tetra 5 2 m. 3244 8 Daygornyo (microgyong) dedi 169×97×22×14 13 grs. asha 20mm. 3245 & Thomasomy nigriceps 240 × 136 × 27 × 22 51 gm.

Paramo de Guerrero, 9800ft, Cundinamarea

no emb.

242x 127x26x21

Frog.

Thon ocomys niquicefor

3244 Frog. 3245 Frog. 3246 frank

3246 P

3247 "

		·	•
			·

JOURNAL

		,
		١
		·

Journal Bogata, colombia

June 2

Left Main ma avianca at 12:15 a.m (18 hrs. late). arrived Barrarquela 6 a.m. and left 7:15. Route fallows up the Mogdalera there, the vally of which is very broad and flat for most of the way. Som som-concered fanta Marta range to the east. The flat rally looked very much floodel, by no wears all jurgle - much scrub and gross?. armed Bogota 9:15 am aufort building smells lake terming railrood troubtings stations etc - a spicy swell perhaps from agarettes. Marely 2 hours to get then customs - and then he only tooks a quick book, - mused the stolynn, laughed at the moustrape. Chelsed in unth Ja Prefecture at 2 p.m. (after his sresta), then went out to the university to see formento. The university concrete of impressive buildings, many unfinished, and procheally no students marks. Met alberto sommento there but me had to drus bock into town to the ven offil of Roberto Sarmento-Soto. Knidly received by both. My trunks has not yet armed and due to exceedingly heavy romes once the fast few months (mashed and roadsate) may be some time getting of here from Bueraventura.

alberto - Lorimento mentroned a mine trumel solor
Villamicencio full of bats. Mine & the Enotiquia. See Stra.
Villamicencio full of bats. Mine & Hotel Mota in Jillamicenio. abant
Bogata has much of the buth, dirt, silly stores etc of
atypical South american city but none of the proturesque charm
of Permin towns. Jocks the broad promenodes/parks etc
of Havanna & Lina. Many gringo - appearing people but all
talking Apanish. I walk the strets almost unrothed - and I
wolked wany with them today. Mo tourists

June 3

Went book to the Onewhat to combes more south allerto Sprimento. Then met Digard nearly in the Institute de ciencias Matrirales. He gand me some reprints and I promised him asseries of cactua were. He may Herabhowity is now up in the atrato Volley. Where shoffping in the afternoon.

Met Borrero then went to R. farmento's for supper. He telle of caves (with grano?) wear Chapparal. Both Dogard + Borrero think the Paramo de Hussea could be lasily visited from here by car.

June 4

Explored regions slopes south of the bottom of the Funician.

One majored slope was in how this grass with occasional should and It small pines + encolyptions. The grass was thick as to wake gorgoons Micetus bolitat but found no mouse rights. another slope was pure Everlyptus (a few in bloom), and ready (nearest the Funician) a slope of 'chapparal' consisting of a majorius of covacions herbs about 2 feet high, brockery, and small succulents, all growing on light duffy soil. Reminded me of Findani, whele is something like same attitud an east side of andles in florm.

grounds. Som + beard born own, but no bats. Was approximantle large, uneoupleted Edificio Quinnico thinking to look through its covernous rooms for bats when I leard someone inside. Thinking it might be a burgeor I bocked up



against an autanto wall and awanted develypments. The "burgles" soon stock his bead ant an opening about 20 feet from one and looked around and some in the shadows. He was obviously puzzled, said nothing, and soon disappeared whistling a song in what I took to be nervous monthalense. I a summit later theo was some scited shouting in the building and I suddenly found two goillas armed with 4- foot iron pipes bearing down on me, one from each direction. It was an authorised situation and did not improve until they had talked themselves down to 1000 words per minute and I finally realized they walke worthmen.

Rain most all afternoon. This makes, they say, over

100 days strait of rain.

June 5 Much running around shopping, efelorging dollars, commuting to University, etc.

June b Left 7 a.m. for Villameja by trans. arrived after dark. Station illuminated by 3 canadles. Lange not present, no one know where he was. Spent the night with the Carlos Sarelez farmly

June 7 Mo one seemed to know where havon had gone although they thought he was about half way to Meiro. Started and in that direction in the village arminlum but come to a river 4 km. south of Villarieja and conduit cross. Poturul to Merico thinking to set up a comp at Dr. Molleia site 5 km. morth. Homener, was told that the village line was too wirds to travel the narrow road. Not knowing when to spect Sarage (sent they row in Sormiento) diedel to set

of a camp 3 2 km south of Villaneja, so bought a 6×6 tapp, a foot, some oranger, vice etc and did so. Grazal strong grand with clumps of thorn, near RR. Shot 1 Tyrrams and conglet a point of higards. Jota of kingburds around, also have seen Crotolphago, quail, contravuer a Inffered considerably from think and danger, then from bitting grate which had been in shorp place during the last afternoon but appeared energulare in enormous numbereabout 6 p.m. 6-20 repellant helps but doesn't help them out of nose + lyer. They displaced about to p.m. and when replaced by woogruitale which storyed with dogstered. Temp is show at 1 p.m. use 31.0.

Tent of more 32° on around in shade too about help clouds of 101.

June & Temp. at woon 32° on ground in shade. Toy about half cloudy, half surry (scattered the sky). Very light surressurelle sprinkle in afternoon. Some another pair of Cremidoflows, one holding outs the other on the right side great in front of haid by.

The grate (Langures) and not charapters every to start alkinning mith q o'clock. Then shot a couple work the bugs (and another might, somether than spend another day with the bugs (and another might, somether decided to go book to town and either him a mosquito bar ar aways to move by stoff book into town. So pocked up my switches, and book, and discerting but, hid then in the brusles, and walked book to Clamiga. Mosquito nets were most timelle in Vilavieja, and the town jiting war and a gas, so Phired a burro and 2 bags and me went back to bring in my stoffs am now nottled again at Carlos Laveley house. Some them a hormome concert before supper and set o couple of traps in the store room. After the bourrow trak of successful to 2 vile

		•	•
•			
			,

bottler of Kolo (performed corborated water) from the Meina bottling works. Savelez cought a Molosaid in the store room. Laid it was eating cacoo beaux. Powed rain during the night.

June q.

Breakfast with Lancky, then hunting along the road south of town, Shot 2 Crotophogo sulcirostric, , Columbigallina, , Shot 2 Crotophogo sulcirostric, , Columbigallina, , of tryranius. Som coetus ween and Forkus. Ofter land went surving in the Kro Magdalera, took fretures of 2 balais of a brother of maphost. During this time a cost at of 2 stuffed hunghrids. Went hunting again in afternood about 4:30 and got 2 grail and a mourning done [third smallest done-pigeon that have seen levelouts]

Sur almost all day. No rain. Screet muchers of trate flying up and down our street at about 7:30-8, many going in and out of our roof. Too dark to see them flying.

June 10

paralkeets and another or sporophila. after the experiences of the last few days of trying to remove the govods in the field and three (bird's and consequently ruining skins on gounds or all three (bird's and courses mio) today brought them home before of pering them up. Thinks the preservation mille perketly OK. Several light showers in AM.

just coming out when a comple of bays come to tell we Savoge et al. had arrived. They are camped only 100715 him. 5? of Villameja. Packed up and started bocks to their camp, but had to go up around head Rio Vieja-a matter of a couple of hours. arm were surprised at difference a couple of hours. arm were surprised at difference

	*, *	ŧ	
and a			
,			
			` \
,			

some elypes of prese, imperetrable, tall chapforal. Comp row is on favour of 8 inch grace with only a few champs of thorn + organifies contra. Stramathough the Laramored (at bottom of googles) are raid to be Leavily wooded. The country amedatly surrounding camp certainty bookener of the q bird offers than the region in which (bour belle hunting in Villarieja, but looks better than there for many also. Or for climate - much cooler here. Insecta - at least 5:30 - 8 pm = procheatly non-listent. Swette on arrival by limead, delapse drawer, private tent completely netted, radio, considerable flight of bata over lantern at 8 pm.

172 km. 5 E. Villarieja, Hila, Colombia

June 11 Up at 5:30 to book around after a night of no lings. Law

quail, kinglish, crotoflogo, Columbajallina, Coetra ween, thickness, robbit. a short hunt yelded I given, I kinghis, I little dove, and later in the day, another little dove and 3 vireos. also thinks I saw Syrolopis. Port out about 20 museum species along stone wall across soround; some shruks.

along wall; baited with corn meal.

Compring conditions continueto be superb. Morani all day but clouded over at dush. a few molosside? of small size at early dush, but not weeks many buts later. Went joels bytting across the savarmo (gross, meeds, probles with many forgs). Law I rabbit and I pair of very perfect eyes which when shot turned out

July 6/13 310

to be albegator. Heavy rain at about 9 p.m and off and on most of night. at last i wich.

One large highed signodors in trap line. Morning cloudy, clearing about noon. Temp. in breeze under took 30° Most of day berding + skinning. Went Jackshyhtung after dunnen and got 2 rabbita. Same 1 other and a poor will. Light showed during night. Protially no 8-valuele bot flight

mothing in traps. Ikumed rabbits + buda. Leup at noon 31° in begge under torp. Two immeasurably by ht showers mafternoon, Finally spotted and got some Lynalleina, but in feering into the targle where are of them was chifting strek my rose into most? territing and was nipped either one or times on the end of the nose. Whole fore all profes up and still can hardly see out either eye, and on top of that couldn't find the goings

in the syrollapia lives stalking. Songe Ital. went to Mein to pick up furtheto, but couldn't get avorghyants get back, so are spending

The night in Maria. Post out a new trap live along stream in woodld

region. Making trees, quite dry. Went joekhytting after supper, Had soon nothing when I heard the mozor alling me. Went look to the tente and learned that they had seen a fot only 10 feet from the cook tent. Despite the shorting and commotion it had only retreated about 40 yes, where I shot it. a mursing & with grassloppers + bird in stowed. Propole round.



Very light sprinkle in night. Morning clear rinth scattered June 14 clouds. Temp at noon 35. Hundry 60-; Nothing in ven trapline. Two more Lyrallapis in morning, and shimed for. No rain all day. another syrollafies and a young were

in p.m. Joekbytting after supper but sur volking. Lange et al. ded not return from

Meno, so well have recovered from my wasp stings

lefore any public appearances.

June 15 Shower during might but probably not more than to inch. nothing in traps. More birding in morning. Savogo et al. arrived before huch . Smith didn't arrive because his boggoge had not get come brom Mrani. Songe et al. bed stoyed in Newa to get gasoline but vove available. Returned here on cleaning flood and not much of that.

Sarage found eggs of 2 species of dones. One, the largest, from "the largest dove around here, like the ones in California." The egg is 2 9 mm. long. The smaller egg is 22 min, long,

Tempat voon in breeze under torpe 30. Day worthy summy with scattered clouds. No rain. Humdity low, 30%?

after supper shined another med dwg? about 60 yds. out on savoural from courte. Wounded him with It to, but think he escaped Will looks more tomorrow. Went Joelslighting again. Shot one thekness by motobe for a rubbit, som several poor-wills but no marrowsh.

Mo rain, Temp, in sold at noon 31. Larange It al left labore dawn for Villoureya and there by burro to set up another camp. He has been funding no forest using this comp as hadgingster, and now with no gasoline has little prospect. Sunth not

		:
•		
		, , , , , , , , , , , , , , , , , , ,

got here. Since everyone agreed that I, the cools, and the camp boy would atome if we dan't have some west, I devoted wast of the morning hunting a rathet. Finally got one and two dones close to camp. Two protos of camp the afternoon bolking sost and west, in that order. One Oryzonys with trapline, that wakes 2 mice in 70 trap nights. Moved the line to along another stund woodl that runs partly through field then into a grove of apple-like trees. Feat cutter asots, each carrying a small, white, very fragrant blossom.

Jacklighting after supper som one rathet. One Oryzony:

Jun 17

in trap lino.

Styled raining about 1 pm, then some came out. Total rainfall from during might to 1 pm, then som came out. Total rainfall from during might to 1 pm, probably not more than 4 wich.

June 18

Post raintefore morning perhaps 4 inch until it cleared showly at at about 8. afternoon suring and evering clear. Moon temp . 31. Two mee in the trap his, are a juvenile Originary, the other a Heterony his monse with cheeks posedon. assorted birling during the day, wellding one of a pair of Heterospizius (I hope). Most exiting most the vered hunt. Meanwhere I got theries the other day in a grow of trees a wire was moderne repeated squeeks libro a fledgling about to be fed, another vice mas tothering nowing about in the true of the most or show so years and have trying to get a clear



P. PEARSON 1950

At was being fed. They mound into denser bruch, however, so I decided to take one while I could get it. Used. 22. almost before the viveo (\$2089) hit the ground (certainly within & second on ignarid (2087) dearted out of the bruch, and started off with it. dire viveos have helm bout to come by, I find another. 22 at the boch end of the brigard. This made it droff the viveo, which interied. Sweeth brand was a mee medium - singlane for fichling, I dreided this own an appropriate are to collect. Had no work out afells, so drumped 74ths shot out of a #8 full lood and collected him with this. Even so he lost the top of his head at such close range.

June 19

Cloudy at down and for most of day except for about 2 or 3 hours of sum in the models of the day. Temp at 1:30 under to \$51°. On my monto my trape at down I flushed a quail across the stream about 100 syde from camp. I stood still looking for the mote but some instead a bush dog matcheriome, just within range. It stood still while I relooded with #42, so I shat it. Some the impression of a very delicate for . Itomach full of grashoffers, gross, and I mouse. Only I mouse integers an immature on youngs.

fact might and today more the first 24 hours without prespectation. Concerning the met and dry seasons. Denost energone I have teltred to so for claims that the the training season is in Movember-Desember and thereabouts, and that the dry season is now overdue by a couple of months: should have begun both File or Morel.

June 20

Nothing in traps. Weather overcast all morning with occasional sprinkles. Temp at mon during sprinkle; 28° afternoon overcast also.

Went at duck to Haverda San Diego to bold for late. Many flying around the wain building, which is in a hollow away fruit trace. Carylt some in the high-cirlinged rooms of the house and hazing in the parch. The residents discouraged extensive collecting because they said it would be easy to get all me wanted in the cause towerrow.

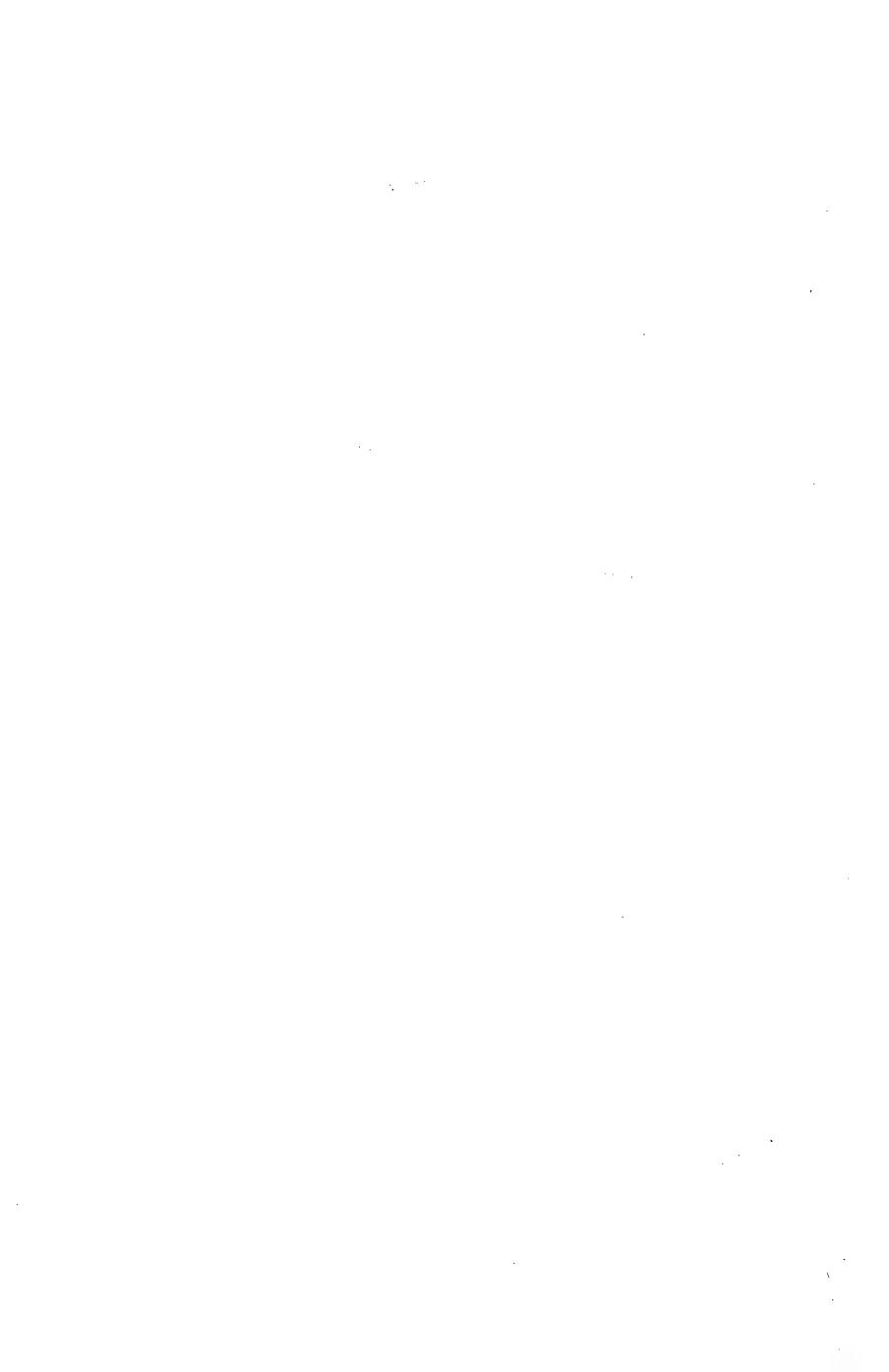
Juna 21

Went care hunting with the Howerds administrator. They are in the quebrods of the delite crek just above the howerds binding, and consist of severed and place in the congloweste cliffs of the quebrods as well as curious delp holls in the cliffs. These holls are about 10 indes in dremeter and as much as 15 feet delp; maybe formed by roots. Mobato. Saw four molesieds? moder a shelf in a dry wash but got more.

considerable sun duringday, no rain; no temps reding at noon because Peras off care hunting.

Returned at dusk to the hocierds. Hunting about no before with addition of a big Phyllostomid which came in with a flutter of might and sending of feet to might roost under the roof of the purch. The administration sours me should be here a month one two hence when the nisperso are ripe. Bats come from miles to feel on them.

June 22. about 18 mels of rain during night and morning overcast. Temp at down 22°, at morn still cloudy 29°, hundring = 60. Oftenoon mostly sunny. Put 10 traps



P. PEARSON

along stream barted with friel.

Mo rain during night, morning dovdy, cleaning about noon to scattered clarda- temp at 1 pm. 32, harrishty 30 -. Molling in traps. Hunting in the morning Palot 2 rabbits for the pot. Owing to the cotton shortage and to hom poorly the other two turned and stuffed with grass + paper of dieded not to stuff them.

afternoon surning, Prehed up truffs and fort them who stone wall running across savaman, batter

und resse plantam.

Mothing in trips, although several spring (without hair) as ward. Morain during night. Morning overcast clearing about voor. Temp. 32 at voor, afterwoon sunny, Itall no word from dange, Henoo, or Smith. Sent the camp boy to Tella for more grub. Soys it is saturday. Went bock to Hoverdo Jan Drego after dark and set 11 mouse traps in the butcher and store rooms, Shot 2 more Molosada in the sover of the touse, and a late-pregnant

The 11 traffer in the house fed 8 house wire. Went book to the little care in the dry work non the bowerds and shot 3 bufmused bots 3050-3052. Was skuning these when the truck finally came. Packed uparallest about mon for Laroge's comp along the Lajas Creek 72 km. Et of Villarieja

arenem of the Campo Coscarron, Havenda San Drego, 177 km. SE Villanija: Camp was now the middle of a meso a confileof miles square, transected by arebrodo Cascarron, Onebolo acerto, and others. Toth sast

					-
			·		
	r				
		•			,

> (Haverda Ruby) the meso rises into the footballs of the eastern ander, to the west drops off into bodlands. Most of the weso top is flat grassland, the seed stalks of the gross being about 8 to 10 tall. There are dry but the blodes at the boltom are green - the whole much took to burn. When we arrived much of the weso was alwast worsky unth chouses of frogs and even pools by everyly for a 4 foot allegator. The swampy place grein a 2 foot stilly byune. The gulbroder were filled unt a dry thorny woods. I slands of thorn and organ-pipe coctus (no Opentio) were scattered across the weso, separated by several hundred yards of the time me left, most of the met placer bad dred up. alundant or characteristre links of the region melide: Ibiser, quail, thickness, three dones (but not many Leptotila) Forfers, Crotofeloga ani, burrowing out, Tharmophelus, Vermillion fly eathers, Minscirora (very abundant), togramme, Consurcarch, coetus werr, Poliofetta, com la seen heading towards and down androdo corearon, apparently to some roasly tree. Several dozantost in a tree overlangury Haderda Son Drego in Bogota.
> Henoo is stee in Newa, South stie in Bogota. The vew camp is along the swift, colled, Joyas Creek

The veir comp is along the priest, colled, Jojas Creh in the models of dry thren forest, quite different them the Savanna at Cooseasron and not nearly as ofen as the country along the road south of Villanieya. Savage deserbes brids like Perelope and has seen dones of at least two bends nesting. A Lepstotila with 2 young

			•		
		,			
				·	
e e	w.				,
·.					,

less than 5 days old is resting 7 feet up in a lind about 5 yards from camp. There seem to be ferrer birds here then last comp. Sawing first mot mots in a gloony glade.

after down I retreated from the butting grats to ded. Had just gotten to bed when Lavoge reported a rat up a tree about 10 ket from the table where the radional

June 26 Playing. I shot it - Marmoso 3053.

June 26 2 to Bun E Villavieja 1400ft, Huda Colombia Shrived warword before bealfast, then If until

Savoye and Perco to to foodlands, Watched them durdle resp a ground sloth spell + ferrur, then carried to shall bock after luvel. Fooked for small warmend bones but found only fish, crocodile, and reptile. Certainly lots of bones around Dan't know what kind of small warmels live out with bodlands, but it sure looks like a good place for Dipodornys , Lumano small marrial forferents in dustry places. Doves of 3 birds smaller) especially remember thermshow

fly cotchers were the most conspressors birds. Flu lyards People at the runch bound between here and the bodloms say

that a few tots line in little comes in the dry wash

wear their camp, and that wany wore are in almos

care somewhere below them. Put out 14 musers specials bouted with outral in thich thorn forest.

frok-hybrid brokent an hour, mostly along the rood. Sam 2 rabbits, 2 poor sentle and 1 servels? ourl.

Mothing in the trape in the morning so went burding

			•
M			
			`

and reconsisting. Walking for 2 to 3 hours & som very few of the 9 lind species. One Tyranum melandohins which I shot, a few poirs of Columbigallina passerina, one pair of Forfers, to 2 Crotofologof, and heard about 3 coneys of grand. Mourning dones are by for the west rumerous bird - want flocks of 10 - 20. He are seen no flocks of this size at other camps.

Temp at voon 29, dondy. all morning cloudy-

bright. Outo hund, noghe 80 %.

Coverning the unseasoval ramfall this year, the following is a quotation from Semana" (Boyota muitation of "Time) vol. 8, no. 192, June 24, 1950, P. 9:

"En vez de seguiá en febero, como acontece casi todos los años, en 1950 el rio Magdalena ha tendo una entraordinaria creciente en junio. La semara pasada las inundaciones habian Illgado al climas a través de entensas regiones selvaticas, o agricolas y garaderas. Particularmente varios puestos importantes, como Berrio, en antioquia, Barrancahermeja y Vilches, en Sandarder dur, o El Banco, en el Magdalena, enfrentabar una seria situación.

... Dien esos practicos y colonos que las crecientes alcanzan magor minel y extensión cada 7 años."

If Picked up trap line in dense thorn woods and put it in slightly more often country - grass with champs of thorn + cactus every few yards: were area of brush

	,			
			·	

than grass.

Juck lighted for about an hour. fam are rollit, 3 poor wills, a few bats. No boto right rooting in the abandoned thateled but along the road. Sprinkled rain doing early evening but just every to settle the dust.

the runer rose about supper time. Not gradually bot by a sudden surge as though flood gatta had been offered. The first were of moundy water could be heard coming and was easily visible when it arrived

Mothing in traps. Went limiting in morning to the quebrodo above the local bacierda, bashing to find in it some little bot cares, but nove and bird worth shooting was I kingbird. In afternoon went buntury along the road about 2 bours, but withing worth shooting. A few small crotophogo seen (about certainly sulcirostris) and several quail (but we longer west these). Onte a but of the book terrain is waist-high weeds and grass, but no seedeaters in it, Mo suddows.

June 29

however to "the bot cover" after a few stope to look at fossils that he knew about me took a trail down though a start of bamboo, plaintains, and corn to the Loyas river, and there are hanging the river was a 12 nich tree mith a hollow termite rest about 15 feet up in it - a 10- wel opening on the bottom side of the With some prestling about 14 large

June 28



bots energed from it. Some of these landed in trees very and Pohot 7 of them. 3061-3067.

gradulated back to the barrara plantation, a total distance of about 8 or 10 kilometers. Four 5 robots (stat 2), about 20 poor wills, and in and near the barrara pates gentla few large and noisy late. These flux gentle close to some with love fluttering sounds. Faw no other manuals.

The comp boy (Paulino) brought in a bird, the first be bas gotten with his slingshot. It was Comrostrum, a genus I have been booking for but badi't seen get.

June 30

Mothing in trops. Left atter breshofast for Villainey's via the horse trail to dook for smallows, seedeaters, and Crotophogo ani. Returned was auto rood. In this 20 bilometers afoot som not one of the 3 species. Shot a crotophogo, but both were sulcirostris. Law a dozen or so others, all looking blue sulcirostris, form quant, poroheeta, little done, Dan small cot? potherits.

contents upler the road wast of their golvanized corrected pipe just big enough to crawl through and affect just longer than the road is wide (I car with. Over half of those examined had bats (3072-3084), two species mixed in one of them. A tenthrey for walls of the short-eard one (3075 etc.) to have about, several females (preg. + nursing) in one. Al seemed alert was rather



warm; one open only at one end was much warmer than the air. Got 15 bata all told, about a bull dozen escaped, and I have looked only in the tunnels under the Villamejor third of the road. Discarded a few body shat area

Light sprinkle at voon, just evoup to settle the dust; somewhat more at 7 p. m. but not work than 16 wich, Have been in out campanly one day, and forgot to late temp, and that day. It has been as low as 20° in the early morning.

Devoted to took down dangle mystery hist, described as a ling brown coat. It makes a rancour sound mornings teremings and also a soft, deep, mellow booting that can be heard only 10 or 20 yards, always eventteed so for in heavy woods thuch, I had it all figured out as a triamon, but when I shot one this evening it seems to be a forest-living rail.

July 1

Fight rain during the night and until about 9 a.m.

Total manuel in can was about 's wich. Nothing in trafes.

Temp, at won 29. Sot a few more lats out of a culiert near camp, this time 2 late preprint 44, a non
preg. 4, and a matere male. all wide awake.

moved traff line to a day wash running through foirly thick woods.

Jackhighting for about & hour slot 3 rabbits, saw , other, 2 pour mills, and one long-tailed out about sign of barn and.

	•	
		•
•		
		\

July 2

Temp. at about 5:45 a.m max 19? This felt like the whether yet. Nothing in trape, ... 78 trap rights here so for with nothing. Day with scottered clouds, about boly sunna half clarify. Temp. at won29?.

Fooked in some more culmerts and got 3 more lotte, 3105-3107. Each of these was above in its own culment, even the late pregnant one. If chased out of a culment they frequently borg sep in a rearly bush, theret some of the culments are corrupated iron pipes and some are node with dry stone walls with tunbered ceilings, about 2 feet by 2 feet. They sametimes go into craelse in these latter. As present in the latter stone of triber oursets are wages, small brown by arts, and summers aroke skins.

the 3 ratherto Paket at 8: 30 last night were too strikes by breakfast to eat & Heroo left for Meiro to pick up Smith,

July 3

fight rans beginning at 4:15 a.m. Stopped about 7, then more later in morning total sinch. Mo summp to 1 p.m., temp. 24? Nothing in traps. Mo sum in afternoon either, Herav arrand with Smith lefore drawer.

July 4

Mothing in treps, with no prospects for more species, went to bodlands with large + Henov and sifted for rodent tith. Temp. at won (overcast) 26°. Humid. 60°. all morning cloudy, afterwoon mostly serving.

Moved traps to a dry wash running through a fill of tall grees (oft.) and weeks, Jots of corning trocks in the sand in the wash.



Jackbyhted twice down this wash for about 4 mile, but some nothing. One but banging under the coverete road bidge but.

Addit get it.

July 5

Nothing in traps so slot birds: 2 grand, I kinghird, 5 Confihospingus, 1 Crotophage sulcirostrir, and I cartus ween. Didn't get around to the Crotophage and threw out the coetus ween because it was in such worn followays. Jacklighting after supper shot another brish dog by the bridge over the dry much where my trapane. Eyes yellow-white, we orange or green. He stopped running when I squelked.

July 6

Temp at damn 18. Morning all sunny. Temp at voor 312; humby 40 = . One swall lays. in tall grass. Skinned for and "and hind in a.m. and packed up a bot of specimen to store in Villameja. Drovo to Villameja in afternoon left specimens to fossile there, hunted bata, and wolked house after dark as no gasolino. In the peak of belt tower of the church award the beaute were 7 laye Phylostowids (hastaties?). Caught 3 of them and 4 sacaped though the bell "areles" despite grants of unfitten bills. Olso bell "areles" despite grants of unfitten bills. Olso browned in classific grants of unfitten bills. Olso browned in classific grants of vools of Mong Wolossus flying down the streets of Villamely, at duch

July 7

Mothing in trape. Took about 5 photos of thom server and a dry wash through theter forest temps at room 31°, howard 50°. Morning + afternownostly sunny, scattered clovels. toll limited wish by the shower at



survet ,

July 8

Left after breobfast for new comp on edge of bodlands. a few wooded greebrodar, but very infrequent water. Half bour on foot to the north is the large his Cabrera, trail to it mostly through thom forest. The truck broke down (battery droffsed out) on may in, so I now have no trops to fait out - and a comple of fermenting obulla in truck. A local boy says there are fores, cats, robbits, peccaries, and deer near here. The deer and penaises are perhaps in the foothills, while begin just beyond the know Cabrera.

Jackbothing after supper loan 4 rollits and a few

Boarmels. Oute a fembats.

July 9

Hunting at down sow I robbit. Heard several roils and sow I running in the offen with long strides like a rhea. Many pairots, cacture wrene, mourning doves. Two very vice small cover only 100 yards from camp, dry by people looking for indian gold. Best comes for bats that I have seen so for -but no bots in them.

a local tree booking like modrave (
seems to be deciderons. Some of them are lasing the last of
their leaves, some are just broking out, and some have lotte
of leaves.

Went forsil + for hunting out into the bodlands until colour 2 p.m. all sunny: Then went down a drop wash to the river looking for hollow tree and cares. Found one bollow tree and 2 small cares in

			,

the mid walls of the grebrada. One of these was a vertical fracture of the bank, closed at top and mide everyle at the bottom to crawl back about zapet. It was cool, dark, and contained one to medium-sized bat, but the mid walls looked so insecure that I didn't dare crawl in.

trops arrived by hurrow about 5 p. m. so port them out though the gray suidstone bodlands vear comp - organ pipe coetur, thorny musso, a small reddish spanish boyoret. Jacklighting soin poor will, no manuals.

July 10

Nothing intraps. Walked to Rio Cabrera by may of the south fork of the rood. Mostly through terrain similar to that at camp to joa (rather ofen thom seruh). Hot 3 crimour-crowned finches and 1 Crotoplogue enlaireatria. Sow only a few of each of these, plus a few binghide, a few possibilities. Heard no given (base board none from the camps). Morning serving with scattered clouds. Temp at voom 31, and 40±. More bids in pm. Mr judsbighting in evening. Instead, packed specimens etc. in probaration of going to Bogota torrorrow to locate my trunk.

July 11

feft 4 a.m. for Vallaneza, Neina + Bogota. In one hour of driving before dawn som 6 robbits and 1 antester, the latter crossed the rood in open country with a recon-like rolling gallop. When we got to Neina, found that my trunk had arried, so after lunch and shapping returned to camp. South soup that the flore around Neina is quite different than at any of our other camps. Hereo when guyged

	,		

about met and dry seasons is very definite about the season in the coffee country (2 met season, one in fall ending before Xwas and one in spring) and at Barrangville (1 sip-month dry season beginning about Jamory). He doesn't know about this region. Lavoge soup that there was a lot of rain just before I come and Smith soup there were many beary rains while he was in Merio June 28 to July 3. There was less than the rich during this time at our camp 72 km. E. Villainejo.

Returned to compin late afternoon and set out 54 traps (museum specials met outred) some in bodlands, must

in brush bondering it.

spelelighted about 12 miles down the road towards the Caberra serves lodlands and through thorn serve, then book up a dry work through forest. Som no manuface with back in comprehere I shot Morrison 15 feet up in a tree over the trubb that is our water suffery.

July 12

Mothing in trafes. Many baits gove (ants.), only I spring. Saw went proling into cramies in molls of quebrodas in morning. Saw no bats, a few lost droffprings, one rabbit in one of these cramies and one rabbit out inthe offen. Took photos of bodlands were camp to show kind of terrain in which mammale are lacking.

bile woods bordering a longe quebrodo that contains a trible quater for a few hundred yards. These woods not very thorny, many plants rather broad-level. all trips along stone wall or on links, all barted



with barana. also 20 along a dry wash bordered with thorn serul, these too barted with barrara. Rebarted most of the old line of 40 with larara.

Overeast all day. a few unweasurable sprinkells. Went joelslighting about 8:45 to the new trap line in Wels woods. Three Marinson in trops, and two of them on limbs and one ontopol stone wall. Som no mammals.

Coming across a stolich of bodlands on the way look fast my bearings only a few hundred yords from carry and ended up on a totally strange road that I drein't know efralled so mear comp. Mo mon. Spert the might un the sandy-gravely bottom of a gully and got my bearings at down - still only a ken hundred yards from camp.

One lady eater Oryzonya in the thick woods, nothing else. Took some photos of bodlands balitat where no mice live, and the ferte that didn't have any remains (except 2 live toude in one). Tucked up the Marrison trappine.

all Marmoso sofar within 50 feet of water.

Morning partly surry and partly cloudy-bright. Went with savoye in afternoon to collect an Enterothere, then baited remaining trape (20 in dry mach and 40 in lodlands and along edge). Stat one small Mayotis! flying at early druck among trees (3145)

5 km N Villawezo, 1400ft; Huda, Colombia. Multing in traps. Field all up and packed to go to Berbatano. Swith found rest of gellow - koded Rackburd in Typho with 2 pole blue eggs

Left about 1 p.m. and after stepover in Villawega ment by car out to certatowa where motor, linetta, Figeroa,

			÷
			,
		ć	
			·

Trops

1950

	•				lerord
Lojas -	Bodhards + arger of	thorn for open 14, 13,13,13,1	dy work	dy wach then gruss	forest
0					
Bottery	12,54,54,54		20,20		31 (4)
	Edge of plaintain	- cane field	Tallgrass +	meede	
Cerbatana	24		146	①	

••			
			,
,			•

Panhino, and 4 young comfollowers set up count, I hen all left eyeft bankno and l. Let I stat trap in the turnel moder ranknood behind counts where I some? coat? trackers. Jacklighting for about 10 minutes some nothing.

July 15

Buding and recommendating in morning: got 5 seed eaters, some Crotofologo ani, and about 2 swallows flying high.

The grass and weeds with bottomlands and along the rentrood bracks are luster than anything at the other camps. Very little thom search near camp but seems to be some patches on the holls in the bodlands. Let about 73 trefi in the grass-weeds and along a dozen along the perse of the not-very-thining plaintain and sugar-came field along the stream near camp. also 2 more steel trefs in railrood culverts.

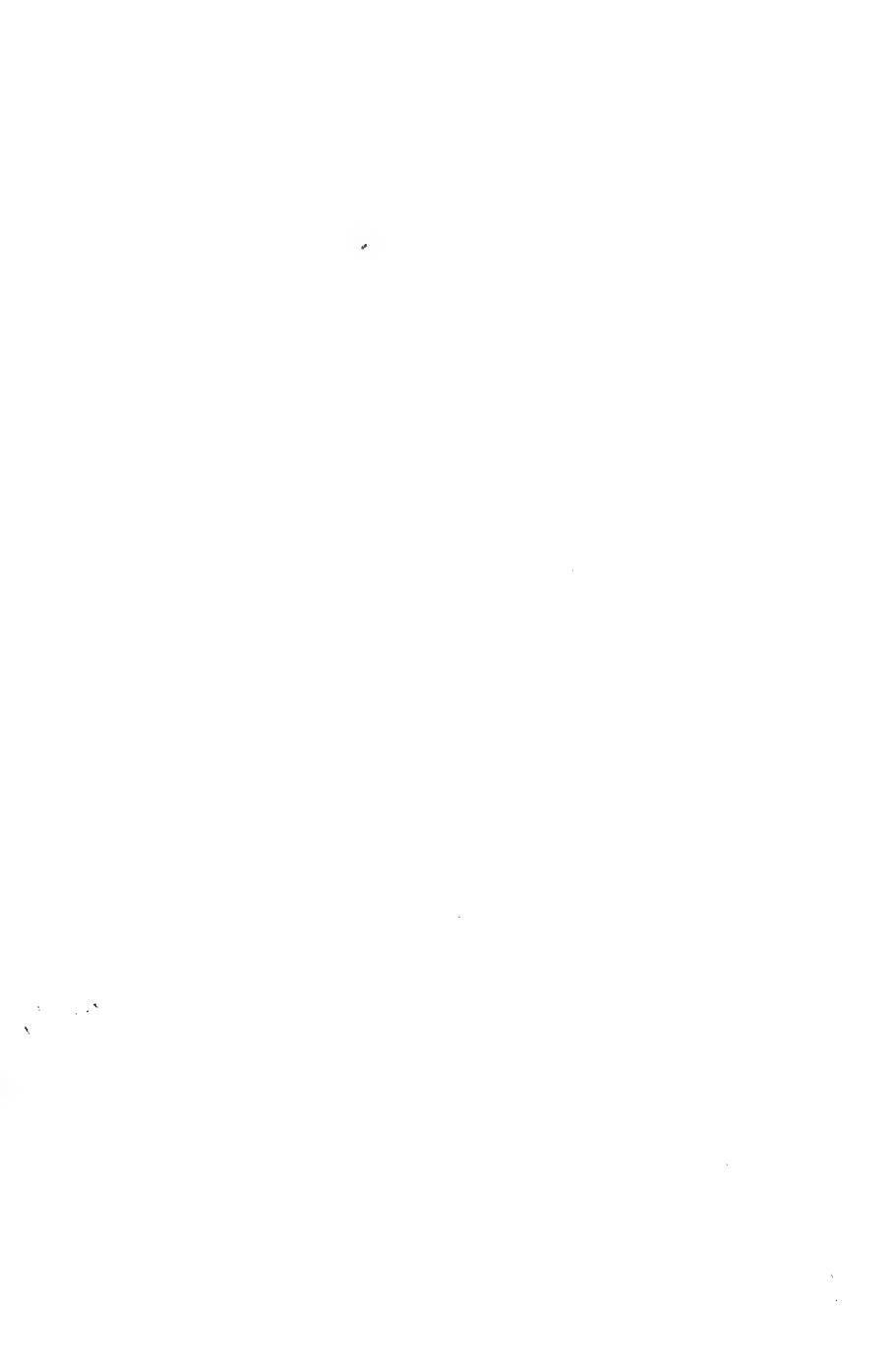
Dong worthy survey with scattered clouds. Thus at won 31; humbity low = 30%. a good drying day with

Referrett some tref true. Jackbylted for about & hour but som wellielde gust below bridge looked for bate and som nothing. som none.

July 16

One crygamys in traps in tall grass. Rest of day birding and rebuting some traff line. Som fledgling huming bird but parent not identified.

Day readly sunny with numerous clouds. Tenf. It won 33°, hund \$ 40. No jacklyhting although Pauline went down to bridge about 8 pm, to look for bata and some withing.



July 17

Mothing in trapa attent except 18 bush dog in culvert under the behind comp. Went swallow hunting in AM down the quebroda by camp to the Rio Mogdalero, then up the river to near Meiro, then back along the RR. Saw 4 Steljepopterys and got one of them. Many swallows on telegraph weres near Villaviero at one spot. Shot 2 of them but both were Sirdoproene.

When I returned to comp a little before hundring,

Figaroo (the cools) & Pinetta (the chanffely had come, along with
a special messenger from the Service in Bogota. His
message was that all forigness were to present themselves
immediately in Bogota (presumbly because of the Korean
situation). I suspect that most of the furor is really because
of Lavoge's commission in the Reserve Corp. fast am
planning to leave tonght in the truck for New (if gasoline
for it arrives as expected on this enewing's freight train).
Morning mostly cloudy bright, afternoon scattless clouds.
Hunidity = 40, temp at woon 32°.

July 18

The trule did not come. No traps were not last right, no packlytting. Short 4 coeture were for Dugard and of a flock of about 7. The adults still in very rogged plumage. after lunch went to Villamejo along the rood to see what cooks. The time gasoline came and the truck went to Merin — without pulsing us up. Come books along the rankood about 2:30-3:00. Sowno Stelgidght-eryt. While I more gone 2 policiemen and some athers came to camp (they had passed me along the rood) and told Paulino that all the gringes were returning to the United States.

Morning avereast, with enough druggle to settle the dust



and erase footpents - Temp. at mon 30. afternoon sunny muth scattered clouds.

Port and 18 museum specials along to steam just behand comprehere they can be prelied up quelty in case of a rapid departure. Jacksysted about holfmay to Villaweyo along the road and saw nothing with lock to The stream by comp where I showed along the stream a pair of eyes smaller and more orange than for. By the time thod made sure they werent dog, cat, good, sheep, or pig the annual had had evorgh and ran off refestream. Saw it once ogain at a distance. Maybe tayra? Maybe ruewan?

July 19 Molling in traps. Light rain at dawn, perhaps 16 mil. lacked up everything and at noon packed by burro unto Vollameger where of was just finishing packing the collecting chest in preparation for leaving for Bogota on the morning train when the truck arrived with Sunth, the chaper chanffen, motes, and the cook. The latter 2 had been pand off and mere on their way to Bogota. Large & Heroo had dready gave to Bogota. But according to Smith there was no real emergency, the consul dedu't want to see us, notory had to return to the U.S. So I rearranged the equipment organs and book to cerbatano ogain. Mode camp in some place after getting the polls bock from alfredo, to whom me had milled them.

no traps out but had some fun jackbyhting. many both flying under the RR bridge and lapewally under and around a large people tree about a half mile fruther down the grebroda. Under this tree was the chipping

•			١

piercing. Same seemed to be landing in the tree, but I never som one about I had her looking up into the tree for about 5 minutes bothing to get a shot at a setting but when therams owner of a pour of lyes too large for Morroso. Shot down a 4 Philander with 4 freed pouch young. On the way home stopped at the 3 rarlway contrects. In one larging on the sides were about 6 bets. Shot o (wounded) and ran with the turnel to got it and was severely better on onefriger - a fairly deep flap of skin almost completely cut out in one girls nife. Bled profusely. Wrapped the beast in my Randberchief and mutted for the others to return. One of them returned several times but flow out each time as soon as my light reached him. In the nest tunnel, however, was another bat, which taket. This (and the first) was a vampire. Got one more a little later in the first trummel - all probably between 9:30 and 10. One had considerable blood in intestine.

July 20 Skinned til about 10:00 then ment down runbroad to Quehreda Jajus, down for so to Mugholling, up the Logar to you, then book to amp. Som no stelydotterys, several Kridoproveneon plane miles. a little above the RRon the north bank of the Logias found a me hollow tree learning over the stream. no botto in the tree but a dozen or more buts of 2 species in the doch "comes" among the roots in the band. Shot q. Many flem out at each shot, but wast would return. a few flew off and a few honing up

4 steel trops near comp, +2 Schnylers bartist with barara.

4 steel trops near comp, +2 Schnylers bartist with barara.

4 the supplier a wind storm come up accompanied by

4 with rain. We publishing.

Day worthy sunsy with breeze. Moon 33°, humid ± 40.

Temp. later in afternoon got up to 36,

July 21

I Marword in a Schuyler and I bot in a baranabouted steel trap set in theh brush under RR bridge. Went smallow hunting in the morning till about 2:30 down our Onebrodo to the river, then afthe river toward Villarieja, then down the river to the rest quebroda north of ours, then home down the RR. Law some Stelgidoptery circling over brushy fields down our quebroda but got none.

rosetter of lavoro-bouted museum specials on the ground surrounding a very represent of barrows. also z on fever posts rearby. also 1 steel, 2 schugler, and about 15 museum specials lasted with barrows along the stream among trees in the 1st quebrodo worth.

Day mostly sunny, a few clocks. Temp at 2 p.m. 33;

Went probleghting with Sunth down the grebrida to the kapak tree and beyond through the gloomy stretch. Som a few foormills and many both around the shapeth tree. They either land on honer to piels things off the tree. also several both under RR bridge. Then jochlysted along the RR to the next probable month birt som notting. One but in the nampire tunnel but it flew as soon as my light struck. It.



July 22 Only catch was 2 more bats in the barara sets.

Went swallow huntry down our grebrodate the riner,

up the riner to Onebroda Jajas and the bot tree where to

got It more bats, then have same route. Got are

swollow in same tree as last one a also 2

Crotophoga ani.

Put out about 15 Museum specials in the bushes and

Port out about 15 Muslum specials in the bushes a along stream by comp, and about 10 along a stone wall in the boolsands (grass, much grazed).

Went down to bapas tree at dush but only sown? Moderane? Hyping. Stayed till down but nove of the big main bats had arrived yet, also sow only I under RK britise. Shot restrict and one more vampire in some tund Temp. at mon 31," hund ± 30

July 23

In traps 2 marmora (one behind comp, I under RN brige in bot traps), I bot, I argrownys along the stream in woods north of comp, and I Didelphys also along stream in north quebroda, and I vulture in turnel behind comp.

Temp. at mon 33°. Morning overcast, afternoon mostly overcast until about 3 p.m.

Picked up the traps in the north quebrode but left some of the start rupe, the bot sets (but without much bout) and the trap line around comp.

Short preklighting down to bridge but only a few poor will.

July 24 Traks held are more vulture and and runch eaten & marinoso. Packed up energthing and left for Villainga at 8. Reported



> things and looded truck etc. anto flateur in p.m. While the station waster was making and the papers in his office a small but flew in and was knowled down by one of many bystander (no. 3208).

Day overcast, light sprinted it dusts.

Compared to our atter comparter, Cerbolava has some lusher bottomland nearly, the thorn serul is less abundant and less dense, the grass shorter and looking as though more closely grazed. The grass was faintly green, mostly brown. When we drave unto tour for the last him there was no water floming in the Lujas.

Left on morning train for Castella, then drove to Chapparal, part of the may across abunch -grass plain very source like Haverda Parrison at 13,000 ft. on the altiflano. Spent the night in Chapparal.

July 26 Shapping in Chapperral and much talking with vovous people about hou to get to the bat cares of Trilum. Tried going ant a road across the airfort, a road that was said to take one to only 2 hours an foot from the cares. The rood was just about passable but several long & stuff hills of red day would have warooved us for days m case of a single rain, so me drove bock and mode camp about I mills antsids of Chapacral after arranging for going to the cares tomorrow.

Camp is along a small stream bordered with rather brood - bafed trees - no spines. Most of the surrounding terain is grasslands. The total effect is totally different than the Villariajor region. Birds are much search. Have seen Cratophoga ani, Tyrung true swallow, and Smith saw Sporuphila Day completely cloudy, evening amonderably cooler than at Villamijo. Camp about 2 miles west of Chapswal Cuevae de Tulum, Tolina July 7 Left about 8:30 Am unthe Vanhing, + mozo on horsebock unth one cargo mull. arrived on ridge overlooking the Orebrida tulum at about noon by a route not the most direct. While looksing for an easy may down to step soles of the quebrodo l'espotted a dels standing about 30 yds away. Called Paulin + the mozo to watch it while Tranto unpock my gun. The deer had not moved by the time breturned (3014 mountes). Shot it, a

though old? wall.

One of the cover combe seen from the hollofs and has an old abandoned cable, with gasaline engine, running down into it from the hollofs - presumably to remove grano. The other coul the and one me have been in so for is attally a hope homestone turned though which the knot volume runs. The ceiling is in place 75 or more feet high and there are attalond holls to crooks in the celling containing many bator. all

the holes were over the river, so Ppasted Parlino

downstream with the but not the fired a full look

•

of 122 mponto a populous ball. Somewhere between 20 and 40 bats fell in the river and Parling frished out 16. Skuned until dork which comes early down in the garge (me are compled in the cone, at duck and after, two hours has buds flew for perhaps z hour near the certing of the come apparently hunting both sometimes being Chared by large hats. I (bee birds make a love sropping sound as well as a roweous rattling cry. Other forms of the came ase cockerovehes us by as a Myoto and at least I spents of small bat, also large flat spreder and large centifieder. Fooked though the came at some time in the models of the night. It'll a hundred or more of the large, bots (the 3210-3215) in their wich. Was surprised

July 28

of the night. It a hundred or more of the large, bots (the 3210-3215) in their wide. Was surprised to find that their eyes shine. The howbs were flying in the came before down - even with my eyes dark-adopted I could not see my hand in front of my foce. The hambs were making a snapping sound as they flew, take a wooden ratelet, 5 to 10 clacks per second. Perhaps an echolosation weekensin.

Many small parrots became appartant flying in and out of the case after day break.

Skenned until don't 3 p. m., then went to the "grano" care upstream. It too has a stream coming out of it and is near high at the entrance a median-sayed pale but was flying in and out, disappearing into the trees for a minute or two each time. Murisid it several times. I wonder he care

			•
		V.	
			•
	•		

at a point when there was still a titlle daylight were over a hundred "owle" sitting on ledges and flying about watering much rocket by squarking. The eyes shine, but rather faintly. Shot one, 3223, and a bat (3222) that was langing on the side of the care. We did not go in beyond the owle because the care warrows to 6 or t feet and the mater because guite deep. On the way home only a few hundred yards downstran from the owl care found another small limestone care with crawl-in entreves. Inside were a dozen or so bats. Was able to friels 8 off the malk atthough they were not completely to prid, (3224-3227 and later).

Returning to our case we noticed a large country near the entrance contains perhaps 50 of the big Phyllostorische (Lastatus; 3228). at least a half-dozen afthe "ourle" unde "ourle flying near the certific of our case at dush and for perhaps a half hour after. I seemed try carbide lamp for about 2 hours. The "ourl" bad I seed blos a cherry put in its stomach. Defore young to bed (q:30=) did the rounds of the care and found large number of bats in all the regular roosta (websing the lastature roost)

July 29

the only more book just at daybresh. That we to look at stomach: 3 pieces of what looked like mut shell. Tempevature of come yesterday varied from 22 to 23°.

The small parrota with red jarelead were book flying in and out of the come at short 7am.

· ·	h.			
				•

Left for clopeared about 11:30 and armed at 3. The deer skin + skull quite struko. Smith bod would from our camp west of the town book to the hotel in town. Skinned until about midnight.

July 30

Finished string and pocking. morning. Light shower ching the night but certainly not moether 4 met

Mo rain yesterday or the 2 days before that.

Left 1 p.m. and arrived Gerardot about 6. Mumbrous C. am fetween Castle and Doawo. also kinghids, seison tank t verinthan plycatellers, 3 dowls. Jooksel for swallows most of the way and sour (Tree swallow. Left 7:30 for Bogota. I dead 4 Didelphy, an road at Lalto; severel 3 grown parch young (65 days !). arrived Bogota (-30.

July 31

ang 5

40 misem species bated with walnuts in rather this, ferry brush on the hillside near the Frementer cought 4 mice (3243-3246). 3245 + 3246 near rock onteroppings.

ang 6

Went by how with Bovers + Smith to the Parumo of Sverero letween Zipaquira and Pacho. according to Bovers it is not as good Paramo as, forepample, the Paramo of Brasco. I was impressed by the scarcity of birds. I don't think I saw more than a dozen individually birds in 5 hours out on the paramo (singe, big thrush, sparrow, ween, smallow, flycateles). Several hyards (3246-3247), two frogs (3249, 3245), no manmols. In one swampy part of the paramo and rearly saw search many runny, cuttings of grass and Espeletio Howers, and drappings that

		V [*]		
			·	
·				\

booked like gimes pigs. Borero soys that gimes pigs are common both on the Parano and on the Savanna of Books. Som no ligard eggs or ants as in the parano above the root to Colera of few days ago. The routinas very leavy, block, and perobably aid as indicated by the presence of sphognum in the metter parts. Dogard has mentioned aid soil as a characteristic of parano. Borero soys never freger ar snows on the Parano of Sverero (athtook about 9800ft),



150				
Pate	Time 1 pm	Temp.	Humd,	Weather
June 7	1 pm	31		no train
8	mon	32		Hoffcloody, Loff sunny (scattered the shy) very liftine asurble springle in ofterwood all day
9		-	A	
10				in of morning
11		<i>)</i>	fout qp.m. and	of and on all night at least & inch.
12	mon	30	sprikl du	ving milt
13	wow	31	Two im	merewally light showers
	. 1	35	60 ± Ving	wing night but probably less than 1/8 into
1 15		30	30 = Slower de	wing night but probably less than 1/2 inch
	•	31		
71 681	11	27 (dizele)	Light drigglo be	some during night and continued burnshine. Total precip, brobably
3 18	3 1	2 (wage)	will will	during night. Cleared about 8 am.
	1:30	31	A	4
			su.	t for 2003 his in mid-day.
20	mon	28 (sprinkle		
		- () ()		y. Occasional sprinkles.
21	down	22 29 (cloudy)	about & incl	h during night, anouning ordered
22	noon		Morrison mo	they surry cloudy, clearing about a seathers cloudy, clearing about
23	1 pm	32	moram	many orcital County
24	mon	32	Motion	a clarky bright. Sprinkled in
27	noon	29	80 = epily.	afterson sunny. a cloudy bright. Sprinkled in evening, but just enough to a dust see notes
30	early worning	20	Light sprint	ble at room, just enough
, 3 = ==			To settle du	1, word of 7 fam but not 16 wich.
at July 1	5:45 a.m.	29 10 (felt like	Light rain during	might by inch. Cloudy at woon
2	moon	29	Scattered clouds	ig /g wich. no sun all day.
3	1 p.m	24		•
4	moon	26 (overca	ct) 60± Mo	ming dovdy; afternoon mostly sun
6	mon	312	40± m	erning all sunny
7	mon	31	5-12 + January	reasurable light shower it simuet

	,	
•		
	\	
	,	

(400	Timo	Temp.	Hamid. Weather
Juli	9 -	-	- sunny
The state of the s	10 noon	31	40 = sunning with scattled clouds.
3 M	U		serolls
•	12		overeast allday.
d	D		Partly sumy, partly cloudy bright.
	15 mon	31	+ 30 mostly sunny, with scallest clouds
	16 "	33	± 40 " numerous "
	17 "	32	± 40 morning cloudy fright, = 40 afterior scattled clouds morning overcast with enough drigglo to settle dust and erose footprints. afternoon sunny.
15	18 "	3 D	settle dust and crose fortprints. afternoon sunny
culate	19 mon 20 ofternoon	23 36	± 40 hight rain at down, perhaps /16 wich mostly anny. Wind storm after supper plus
	21 2 pm.	33	± 40 mostlysunny, a few clouds.
	22 mon	31	± 36
	23 noon	33	overeget til want 3 pm
Villaniga	24		overcast, hight sprinkle at duels.
Chapparol			completely cloudy

		,
		•
	7	
J.		
	•	
		`
		١

SPECIES ACCOUNTS
BIRDS
Mammal
REPTILE

Species accounts Colmun

June 8 Som one coney of at least 5, 3 = m. 5 Willamya. also 2 pours. (may not have been 2+4) Hunting south of town about 5 p. m. som gunte or few grand in the pasture - thorn serve country - mostly in small coverys. Toget infression that there are more qualitan there is whatling. Hunting at 7:30 for about holf an hour heard calling June 10 from one direction, som one pair sitting on a wall. 17 km. SE Villamejo. Sam 2 pairs on stone walls vear cump June 11 Heard calling in another direction. In afternoon sur one coney of at least 5. Savage caught a ting downy young on June 7. Is some it was a grown because mother flew off from it. continue to see coverge + pours. Very little calling Being farmber with their bounts now, I think it possible to searl June 16 up perhaps 8 pairs or coverge m 3/4 hour (most of trine spent wolling across open sovannoh between "slands" where the grail are). yet me hear intrathing andy 2 or 3 timbe a day. Most of the coneye seem to contain 1/4 grown young, but this is only an inferession. Flished a small covery and prehed on a smallish - looksing bird but fired too soon and on dead center. Found too legs and two mings, each spronting many ven feathers. Here at Cerbotano have seen 2 singles, one pair, and are coney of 4. Have heard no singing Som 2 more coneys, about 10 and 6. July 17

,

Columbigallis passeris

172 km SE Villanieja. Shot 1 (2020) playing tog mith another. Junell One killed today was laying. June 13 forte oftenoon is lest time to hunt these June 64 Shot a young one today (almost grown but zwenil phungs) June 17 92076 was sitting on a low barch as two stalking June 18 her & Inded 2078 (c. talporate?) mbo landed about 8 miles away from her - so dose that I got both with one . 22 and. But two good looks at a female inentating 2 eggs. June 30 Two restlings in a rest of the mourning done the July 10 Shot a young festatila, still with downy belly. July 16

				,
•				
			•	
	1			

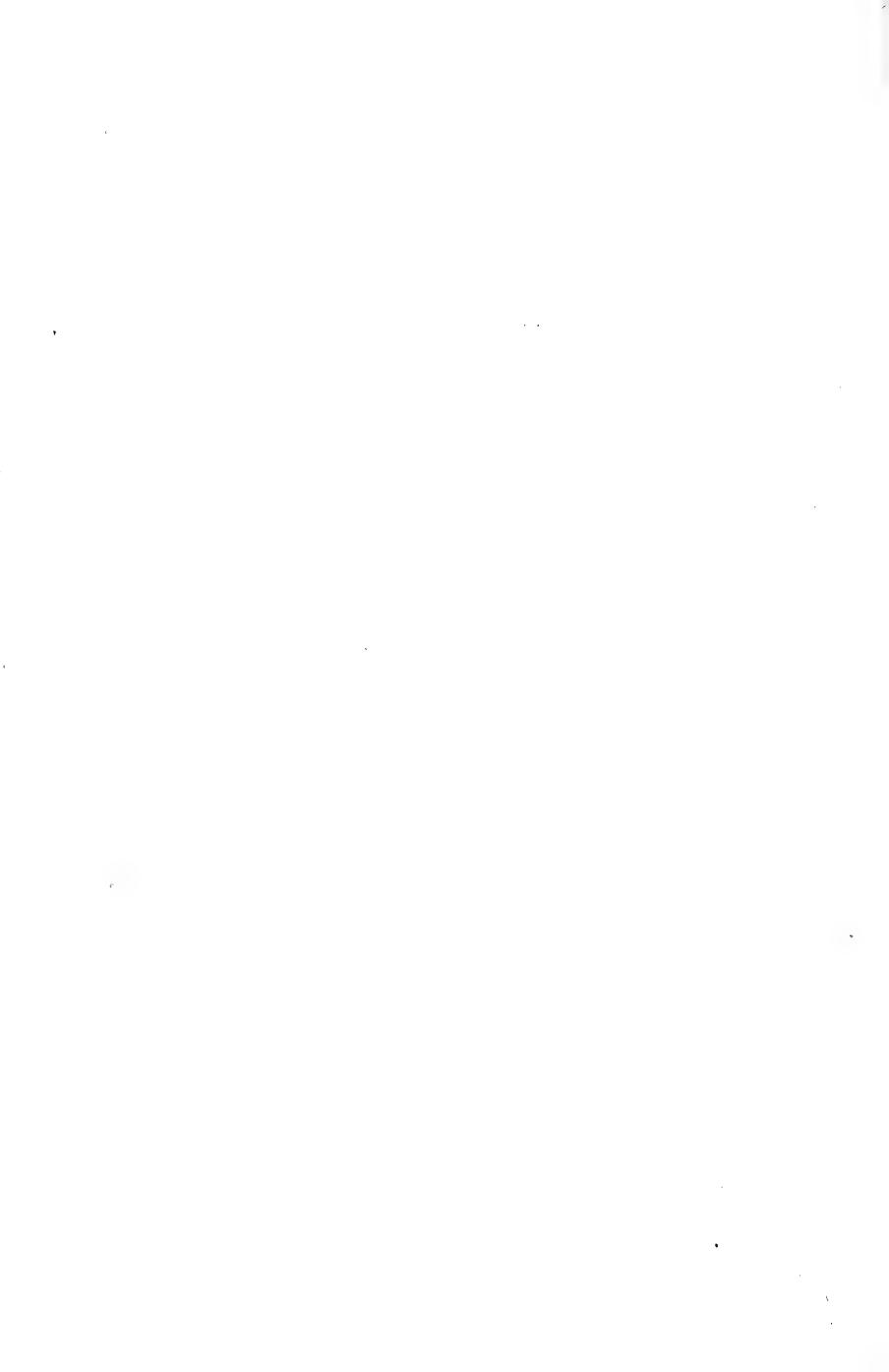
Forpus conspicillatura

Time 11 It are been present in pairs sual flocks near Villameja as well as here (17 t km. SE Villameja) I know of 3 fewepost holes and 2 of them are occupred June 16 by & Forpus. One, can't see in the other the could sel one rather spherical egg at 2 p.m. When grekbyhting at 8 pm the quas in the hall and there were 2 eggs, one commercially larger than the other June 17 2069-2071 meretaken with one shot while they were carotting on the fence with about 5 others. Much chillening, aerobaties on the wires, jostling eachother, etc. This was only a few feet from the two occupied past fales. Flushed a pour from alongside a bollow ferce past . Knied the post was a young bird of some sort and eggs or egg shelle of about parabelt sing (too dark to see clearly) Joeol form boy brought in 8 pin-feathered young July 16 July 22 Saw largest flock so for, ± 50

	,	,	

*

June 17 Sam 2 of sp? attempting coportation. Probably aim but moghe major. June 23 Two qq shot today and gafled of Hormore were loging. June 24 3028, 3029, and 3044 are part of one floch; 3032, 3037, 3034 another. July 17 Saw what were alwast certainly C. ami (about 5) in same trees with about a c. sulcirastria. Good new but no opennens. July 20 seared a flock of about 6 C major out of a till. butto top mar a next with 5 half grown young setting an edges ar on odgorent branches. July 22 for distinguishing tetween the 3 species of crutostoger, leader size, the brown of hill, and was sulcustins Las a more sibilant voto than ani, major more of a croak. also, solviostres is more nervous and exitable, jumps around in bushes more when disturbed. Sulcirosters seeme to be to most undespread and abundant. July 30 C. ani mas more abrandant along the road between Castilla Agrano than sulcireture.



Syrallaties alberene

June 13 Stat 2 in are damped bushes, and avolter in a small bush within 2 feet of a nest (of theh stake, downed, unth side entrares) 2037 but no egypt in the next. Mo surging - girl at warning? chipse

June 14 stat 2 on some brack (2043, 2004). No sound fune 15 Heard one today gaining two ported song: "We tro" or "whit ovo but could not collect it. Have not beard this song from the other? Collected so for - only warning chipse or no sound gune 23 Was paysling over a slort-touted hind rules it was poined by an adult supollopies. Thought bod gotten both in one shot, but the parent: (30308) was leigning and led me a merry chase. The parent's should was under it was first spranting.

			,
			·
			1

Tyronma melaneholiens

June 16 Frequently seen obsporting with Muservoird for perches.

	/
	•
	•
· ·	
•	
	,

PEARSON
1950
Stelgidopteryh reflections
July 17 One shot today was one of a form sitting in same tree.

•		
		\
		,

PEARSON

Gardysorhyrun minor

June 10 Hove heard singuing the East 3 mornings. Today som 5

in the top of an organ paper cacture, some booked a little

small, but nove obmanish young.

June 13 Sam 1 with almost notail (young or molt?). Othere

unth tails.

June 15 Usually seen in groupe of 2 to 5

June 25 Stat one of a group. Was in very worn plunage. Sow another

of a group of about 6 carroging resting maleral.

	٢		
			,

Hylophialus flaripes

June 11 172 km. SE Villameja. Collected 3 in seemb at edge of sarama. All within 25 yde of eochother. One a stubly-touled young, another with young shall mostly Shot or young one being feet by parent.

June 15 Odolt of 2053 came from some thicket as yesterday's young 2047.

June 18 Think legal another parent feeding young (2089)

June 20 Windo picking up tryse about an hour before armset som one view pursuing another rather persistently though the trees, bock of footh. When beturned with my gun about 2 minutes later, labot 2 viscos, 3004, 3005. These two were in separate trees program on attention to eachother. I have it the dissection of these to go but hunting, and in doing so may have missed the overy of 3005, the one with immature shall.

		,
	·	
		\

PEARSON

Sporosphila minuta

June 14 17 z km 5 E Villavieja, Hove only seln about a half dozen at this comp, Much commoner near Villavieja

July 16

Have seen flocks of about 6 several times her at Orbatain

· ·		

Mammal

	•		
,			
			1

Lylinbogus

July 1 Have seen a few \$ to 3/3 grown individuals and shot a late-pregnant one. Sometimes when flushed they give a grunting sound.

	₹		
	``.		
			. ,

REPTILE

			,
,			
			'
			•

Cnemdophorm

June 7 Carrylt by hard a pair of which one was hedding other inste worth by the side in front of book right leg. one wor a or, one & - gorade large. Law warmy others, none very small

June 8 Law another pair, one biting right aide of other in front of hind leg. also many others seen.

June 26 Sam one today considerably smaller than the

48 m. ones collected a while ago:

June 29 Sowo a large pair attempting or achieving continu

•			
	,		
		•	
		,	
			1

PEARSON, O.P.

MISCELLANEOUS LOCALITIES (TETON, Who.; Lander Co., Nev.; GILA Co., ARIZ.) and CALIF. Counties AUGUST 1950-NOVEMBER 1951

CATALOGUE NOS. 3248-3369 JOURNAL SPECIES ACCOUNT (Mamma)



CATALOGUE

		·	
			\

Chagnet 28, 1950 PEARSON 5 mi East of moran by road, Teter Co., 1950 myotis lucifuguo carissima 94 x 4 0 x 10 x 15 3248 I mystis countiesble managery Turis 91 × 36 × 10 × 14 I myotis considerable manary terme 3249 I motis luignous carismina ma manary tissue of motis (in Simon's house) no ent. 94 x 41 × 10 × 15 3250 Inyotis lucifiques carisarina 86 x 36 × 10 × 14 3251 7 zino emb myotis hierprogras carissim 89 x 39 x 10 x 14 mystis lucipeus camosina 3252 95 × 40 × 10 × 14 3253 or ysteatis 2.5 mm Lander Co., Meroda. another, 6145 pt., ang. 31, 1950 testre 10 x 6 ½ m. mofot. 8 Corynorhinus rafinesquei 22mi. ENE auburn (Placer Co.), 1200ft, El Dorado Co, Calif. Sept. 1, 1950

rapines internalin accessive and, 5 mm

Congratuatestis 10 x 6.5 Eficial 4 x 2, ho fat.

P Cong. method med. method. Rt how large the
left. 98 x 40 x 11 x 37 105 × 51 × 11 ×39 3257 to 3266 see Congradiens cords and AKP numbers 646-655 Manhattan Muies, 2000 ft., 2 ni NWKnoxville, hafa Co. Thatia 4 m. Elect X. 2 x 4. 3267 & Commorhimo rafiesqui Jacossanis small, 5 m, Festis 7.9 mg. Epided-wellin large -Testa 5 m, epided 5 m. Testa 5 m, epidd 5 m. .

Many sperm in eladd swear. accessors 5 mm, about as about. Epided small. Testes anoth access mall but not ting, probably Congnorhimes rapussementes 6.8 mg. Skidoo, 5700 ft., Pryo Co, Calif. 3270 & Congnorhims rapiesque palescens 97 × 46 × 10 x , white the state of the spermin swear.



Card # 3271 Court caught Actua Springs Sept 16, 1950. Banded 49-123706: Kapt + fed until Nov. 15, Then but into call winted Dec 11, when killed.
Sections: no sperm, one media foll. 36 m, dominat but not really polo called and discuss not really good. Courte Casta Co., Call 1951 Feb. 18, 1951 127 x 52 x 9 x 15 tate 4m 32718 Lasurus cuerens concreus caught hydelert forgsbore, barging on side of a bop at base of a true, I foot about ground. Was conglit about Jan. 20. Octora Spring, 800 ft. napa Co Calif Sept., 11 3272 & Commorhine rapage fathered and kept in isolation with marchy, then before inbosement and led in copy with 28, mo signs of copylation. Killed work 16. Barded C-161764 mipple small-madur. no corpora or large fells. seen under dissecting scope. In sections: I medium folkile, no offerman Kept Sept 16, 1950. Banket April, 1949. San also com card 3265 3273 9 Corynorhims rafinesquir Sept 16 Cought with march 12, then before in basement and fed in come with For. one of formand her apparent. Killed of March 21. Thin and fur musey: Both hours interns small, egiral, transluceut, no med follow, for CL wish mader dissect scope. In sections: oney small follow, no sperm. Munder 49-123722. Som 1950, Kept) Sept 16, 1950 See also Cong could 3279

See also Cong could 3279

Corynothims roping a cought Sulfur Bank Dec. 17, kept in 200l. Cold Room until March 17, then kept in cellar and fed but didn't feed well. Dech evening of Musich 23.

Uterus juvenile ovaries with med folls. Cunder dissetting scope of sections: several making folls. but none dominant or juice. Musicerus sperm in oudult & uterus near tuto when junton and in clarif. 4 Com
fattered and befort relisation until march 17, then
fattered and befort relisation until march 17, then
fattered and before males died about march 24.
Killed her would 25. Born 1950, Keft Sept 16, 1950.
When your equal. Nalling pleas in ovaries when directing people.
See Congrand #3278 In sections no large or medium follows, no sperm. 3275 & Com Cutna Spring, 800 ft., hapa Co., Calif. 3276 g Cory John from attin at Och on Res 17, 1950, Kapt in goology cold soon until March 17, when she was brought into cellar + fed. Killed March 28, 1951. Wens ablet swenter one big was and Nothing seam in ordines under soope In section one big pung bothis mite with germine resil. Museums sperm at taly weing junction 3277 - Card = or cory young ory. lever a med below. Jaken for betha on Sept 16, 1950. Lept 2000 Fed + contacted for males. Kept in Zoology cold noon with March 18. Head. + hept in cellar. Killed March 28, in good shope. Utems your Notif seen in or, whe carpe. See Cong card 3272.

Shell Beach, 2mi NW fromerose, Marin Co., Coll april 91

Tester 2 mm. 3278 Soreh trombidgi monterigenois 107 × 50 × (3.5 × 10 3279 107 × 50 × 13 7 09 32808 123 × 57 × 13 × 9 Location, entryes > 3281 9 12 mi. NW Inverse, Morin Co pregnant, 7 embryon 7 mm. 32829 Josep vagrans vagrans 103×43×12×7 Ustra 2 m. 3283 8 103 x 43 x 12 x 6 1.3 mi. SE Kmerress, marin Co. Caly At how slightly swallen. withing couspie. 3284 9 Todavida 3285 8 teste 3 m, accessores + eforded small. Sommil, 27 mi NE Globe, Sila Co., anyona, april 20 3286 & Prygray without 10.2 gms. overing small, no brook partel no andryer.

3286 & Pygny withith 10.29

April 21

3287 & Entamas dorsahis dorsalis

3288 & Meotorna albiquea albiquea

3289 & Beromysens bouglie nowleyin

3291 & ""

3291 & ""

3293 & Peromysens truei truei

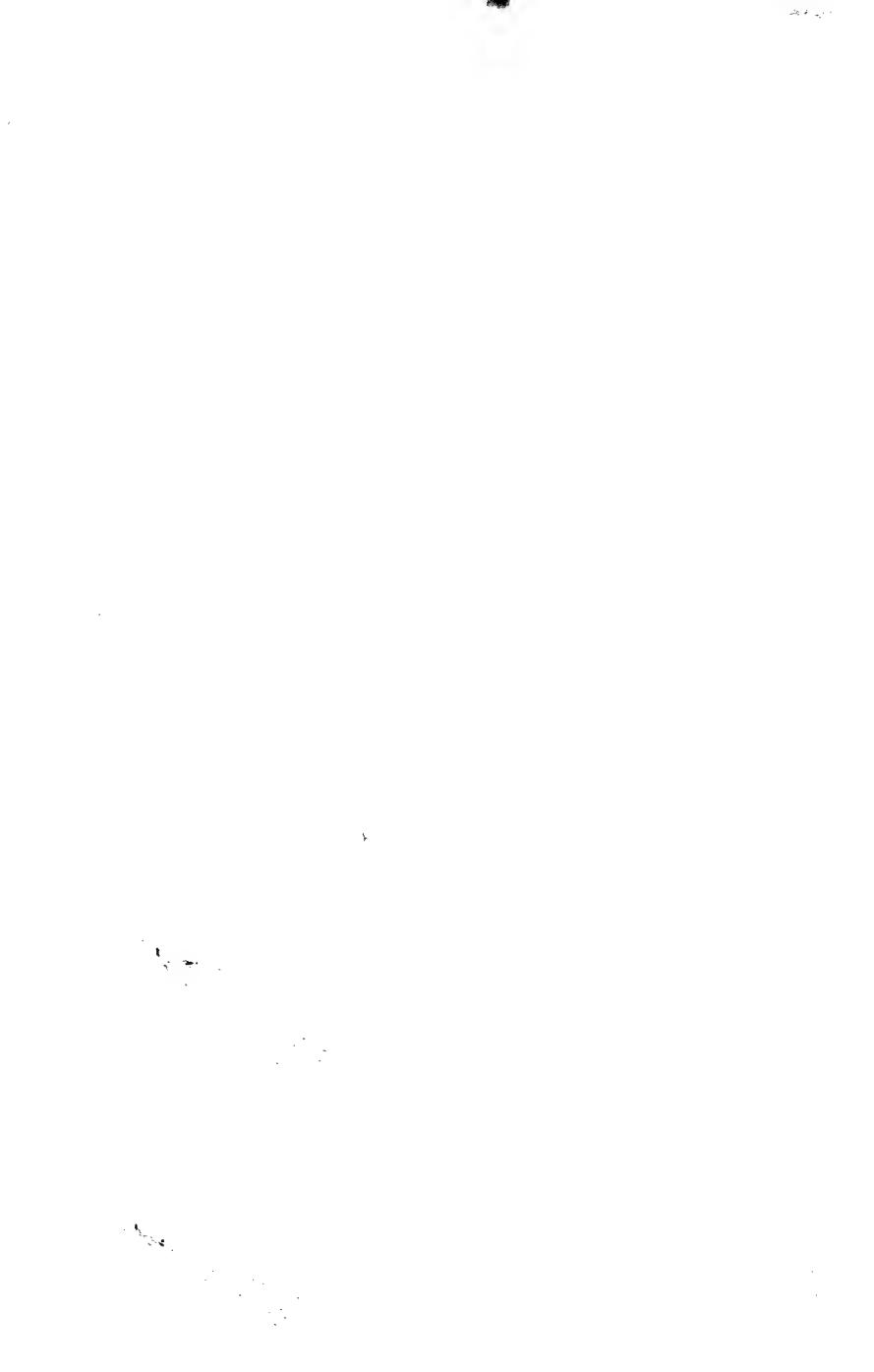
3294 & ""

3295 & Entamos dorsalis dorsalis

3297 & ""

3297

[172] x [44] x 32 x 18 51.8 wo such. 207 x 88 x 29 x 24 55.5 no end . 176×92×21×20 20-3g. testis 11-m. 185 × 95 × 21×19 24.3g. tota IIm. 200x106x22×20 25.59 testia 11~ [150] × [58] × 22 × 19-5 24.7 182 x 89 x 22 x 24 22.59 testie 12 m. 692 × 96 × 23 × 23 24.0g. testis 11m. 1900 x97 x 22 x 22 23.3g. 212×89×33×20 57.8g. testra 6 m 220x 91x34x21 55.59,



16.49 -

122145 X13x 30

P. PEARSON

Samuel, 5600ft, 27mi. NE Stobe, Sola Co., aregora 3299 & Sceleporus

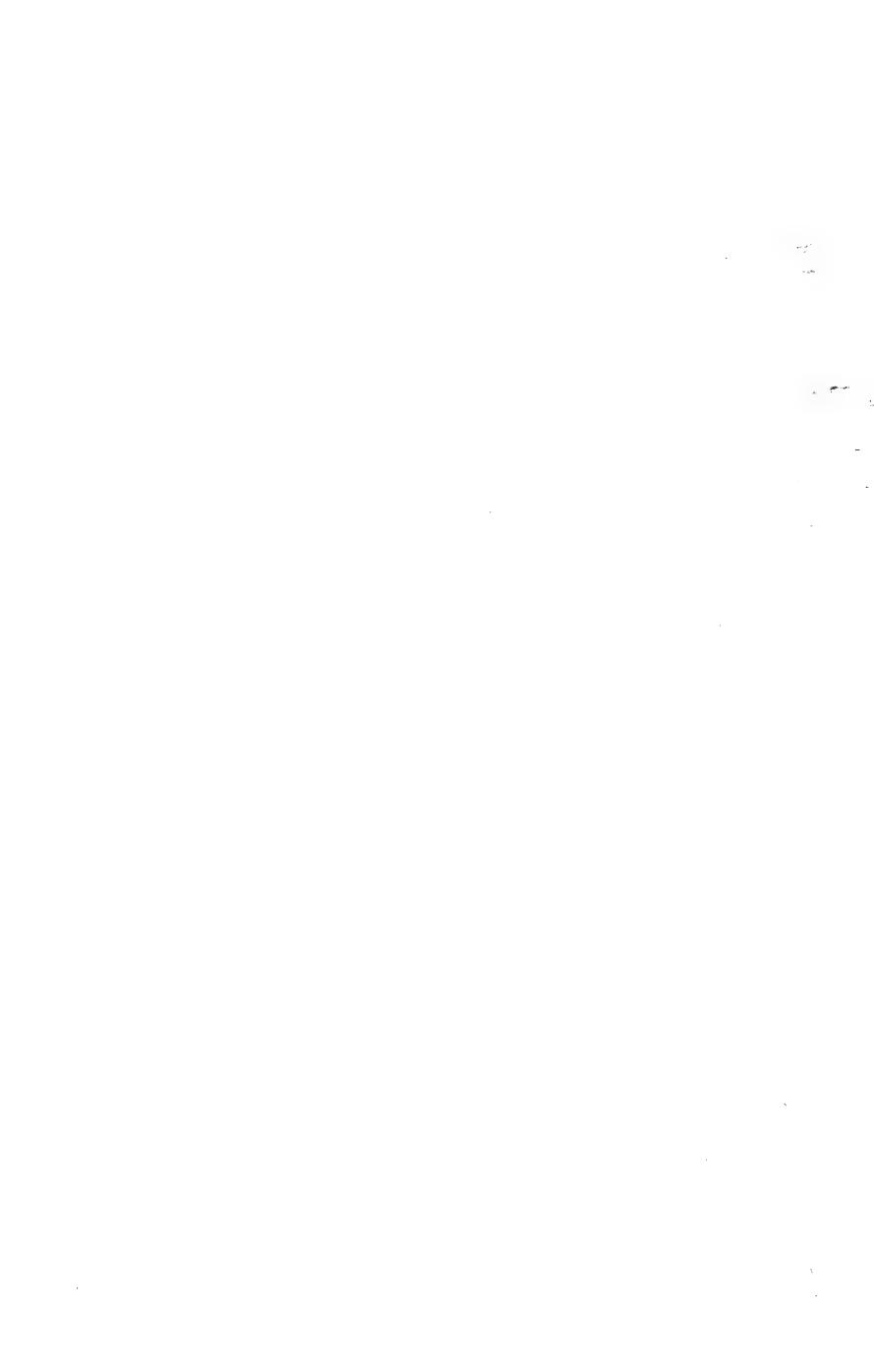
lake 5 m. 3300 & Entermas dormania dorsalis 228×105×34×22 55.5g. lactating. same house as 3288
320 x 136 x 33 x 27 173 g.
Pregnant, 2 amb st. hom, 12 m cR. 3301 9 Neotorra alligula alligula 450 x 42 x 100 x 76 33024 Sylvilogus floridanus holyneri no ent. 3303 & Sciurus aberti aberti 469×196×72×45 3304 & Sciurm aberti aberti 495×211×72×44 3305 8 White-breasted muthatch nobrodpatch. testa 5 m 17-79. 3306 Tord 3307 3308 thatis 11m. 3309 & Berompens boglir rowleyi 196 × 92 × 21 × 20 26-5 209 × 110 × 22 × 20 28.35 testia 12 mm 189 × 99 × 22 × 23 22.0g 3311 & Peromyseus truci 3313 9 Citallur variegatus grammur 430×168 × 57 × 27. m emb. McMillar Miro 4500ft, 14 mi NNE Globe, Sala Co, aris spidis compre. accessories 4mi 33 14 & Cary norhums rapriagnei pallescens 101 x 51 x 11 x 36 7, 2 g. 2 bright compre Tests 43, accessories small, 4 m. 3315 6 Conjorhimmo refusique pullacens 97 1 46 x 10x 35 7.39. epidod conspic. testes 42, accessories 3 1 33/6 8 Comprortinus refuser pullesces 100 × 48 × 10 × 35 7.19. epided. conspie. testes 5, accessories buly 4 2. 3317 & Conjordine rafuesque pallecen 97 x 48 x 10x 36 7.09. replace trong. UG swoll. 3318 & Conjuntium rapiesque pallereen (00x 50 x 10 x 34 7.0 g. Conjuntiones rope egner Pallescen 103 x 50 x 10 × 36 7.5-1 epolitic courspie. Testis 5 m, acrossoule 5 m. Corynorhims rafines grei palle cens 96 × 45 × 9 1 35 3320 8 V.G. small Eptrains fuscus pallidus 112×45×11×17 3321 9 10.39. mo enh Exteriors fuscus pullidus 3322 8 115x 46x 11 × 18 13.80. no ent.

antrogoros pallidus pallidus

3323 4

. . . • 1951

			bumps e	enbross.
3324 4 ant	tozons pullidus p	fallidus	117 × 46 × 12	1×30 15.59,
3325 f "		٠,	120 ×49×1	no embrye mais 12 × 30 15.19.
3326 9 "		*•	0. G. sturt hut 121 x 50 x 1:	5 x 31 16.5g.
3327 4 "		',	117 × 44×13	*
3328 4 "	·•	• •	nosul. 115 × 47 × 13	-
3329 4 "	· .	• •	115 × 4 9 × 11:	
3330 4 "		\ 1	no enh. 116 x 44 x 12 >	(30 15.9g,
3331 6		٠,	tato 5~.	×30 14.5g.
3332 9 "	••	١,		//
Car	sodoro larin	23 m E	VE Slobe Sila Co.	arranes
2222	The state of the s		Tesha 11 m	
2333 Dy	bodomys merrian	ni merrian	252×150×37×	13 43.2g.
3334 4 "		'1	212 × 120×40×	13 26.79.
3335 8 Per	ourgeers eremic	us anthou	x 187×99×20x	19 22-6g.
- ~	o'injeur boylir,		189×97×20×	18 22.09.
	ongous erenicus		- 201 × 116 × 20 ×	
3338 3	**	, ,	168 × 84 × 10× 18	20.0g.
	rompeus boylin ro		209×107×22×	•
	rótypers eremier			
	oded oriols		Cestia 5 m 24.0 g. no brose	
	velvbon narbler		•	
A	proteller herperus	0 - 0:	11.29. testra	
			76×29×6×13	3.36
	Pipistrellers hesperis			2. 79,
	april 26	·		
Sow	mil, 5600 ft,	27mi-NE.	Globe, Gila G., ar	Testos 52
3345 A TO	adarda mexica	agrana Char	dot by Johnston testis 4 98 × 38 × 10 × 19	20 10.10.
3346 8	.,		98 × 38 × 10 × 19	4.05
3347 & Le	rloparus			,



april 27

3348 & Empidonas

10.2 g. testia 2

china come, bout tobas, monterey co, colif. 3349 & Enhydra liting nevers 1206 x 27 g × 203 × 30 × 20 48 lba.

Found on beach may 31, frozen by mor. Wilson. Fur portly slipping, month region cleaned up. Removed grown frieger June 2 and skimmed on June 3. Skin as removed, very fot, weighed 10 = lba. Considerable inquinal mannown tissue, in places 20 m. thinks. Storoch empty. a few aenthospholoris found by marretto Voge. Some hemseloged in liver region but no butlet boles found. Course of death not known, Jarge fature (see 3350) in right form of away without formed bodies, left avang not located aways mesentenes but all preserved. Placenta yourn, fidneys large, babulated, marbled with fort. Shin, shill, + shilten.

3350 9 Enhydra (fetur of 3349)

love the state of 3349)

love the state of 3349.

Love 3.0 ele with met for. Eyes ofen. skin, skull, and skeletory c 464 x 82 × 100 × 12 × 10 3,0

Son Joopin Eppermental Range, teatie on calif 3351 & Soreh ornatus ornatus Complet in suche trap by Mater Cohen. Brought in in alcohol. cought april 1,1951, skinned June 7.

manhatton Mines, 2000ft., 2 mi NW Knoxviele, Napa Co., Caty.

3352 o Mystis evolis

Testis +5 mm

82x 36 x9x 20

3 stra Mines, 1000 ft; Mapa Co.
3353 aveides in upper bot tunnel, somephoce as anide both.

Inverses, marin Co., Caly.

3354 & Eptericus

lactating. Both forms much smaller ovaries small, us CL seen. In sertious: no CC

3355 \$

For betons: probable remains of one confine buttern

33562 prig. Fatur 24, forearm 14. no ch seen

•		
		4
,		
		•
	¥	1

Tolder Park, contra costa co., Calif 3357 2 Eptericus 3358 4 Moriatus California California SKIN+ SKELETON 50.39. marked RP5 and released, body length 100 mm. at that trune. Morn: infeples large, vogina open, considerable warmary hames mit lage pula conjust, 11 nt avery, 9 left. marin Co., Calif. Merrotrichus carelt by A.H. milles in marin co, belot capting. 3360 Zapina fruicets facipiens 217×138×31×13 month of Souta you River, Santa Barbara Co., Calif Sept. 17, 1951 (all cought any. 23, 1951 by T.M. Street) 4 Dipodomys ogilis agilis 289×173×42×15 3361 282×161×42×15 33 62 310×180×43×16 3363 3364 309 x 190 x 44 x 15 Leavining Canyon, 8000ft., Mono Co., Calif. Oct. 6,1951
Running across
1624844212×72. road 8 p.m. Dellar Beach, Marin Co. Colf Oct 19,1951 conglit by P. Blockelin 5 127 x 67 x 16 x 13 x 12 3366 or Raithrodoutory 2 magalotic intermathin, no sears. 138 K72 x16 7122 3367 7

P. PEARSON

1951

- 4 •

PEARSON

Sono Han Oreck, U.C. Compo, 6308ft, Surra Co., Cohf Mon. 4, 1951

3369 & Entermas

157+ 56 ×21×14 no end. or scars 203×91×30×18

			,
,			
			·
			·

JOURNAL

-1			
		•	

actus springs, napa co, colif

Sept. 16

Teft 12:30 until auto, Sney young, and lands. Slopped at arguin and got, of cory in atte of store survery (Heryphil same day got they savodes in anog the college buildings). Then drove to action springs and found cory in alte overtextehen: one young I and 2 odut & q and about & young & e, all banded. about 4 escaped, are of them being a wall (judging by land on it eving). Kept all of them to use in mating experiments. In the activa mines tunnels found one adult q (banded) and 3 adult males not banded, all with lightester. The red-dest turnel that used to have the Relongene rest 75 yarde both nowhas about 6 vesta, all of shedded back. Saw about 6 Permiseus at the lockend of this turnel. also booked in a ven tunnel of auto a further of the hill - a good tunne but no bate. spent the night at the fool on tope Cruck rained during night

Sefst. 17

Manhattan Mines Knopill, Mefa Ca Caly. Catorouch bod no bots yeeft 1 Epterius in same crock as last year. Manzanto Hill bod 6 bato, one of them an unbanded of young corn, the others of Cories, some banded. also misset two in this turned. But a of with turned above Manzanto Hill and missed one. Mothing in of turned. Missed one in the Knopill turned also, I tome after lurch. Was impressed by foot that alward all the Cories were anable, of and of one young of was apparently

toopid and one q. More fat. took sweare of ff, but no signe of mating. [Kept all bate caught].

How come we keep catching unbanded of at orthoo Miner where we have banded so many yours?

Where are the missing male? Found an unbanded baby mummipled in the Mangaruto Turnel. May mean that this is a root for the sweetry colonge that was in the 20-thouse Hole least spring. Seems interesting that no late in the 2 lest winter turnels: Cotosonds and OP.

Found to wenter that about 2 com exalped from the abuse branch of the 20-House Hale and one from the short trust on the south face of the 20-House Hale sear when the RR tracks enter. also there were 20± Epterins? in a high crock just across the almos.

Home about 4 p.m.

mor. 15 Post 7 Comy in 300 cold room (42°F). These are ones cought left. 16 and 17 at actua and Manhattan and fathered up at home isolated from malls.

Mor 18 feft 1 p.m. with center of Carol for Marin Co. Raining.

Footsed in 2 tunnels at end of cake St. in fan ansolver

(Bold Mitn.). Good tunnels but no bats. Footsed in old

R.R. Att tunnel near fire station in Hoodaere. This tunnel

is about 's will long, timbered + mith wood ceiling, clark and

drafty. No bats seen although may have been many between

board ceiling and roof of tunnel. Seemed libro a good place

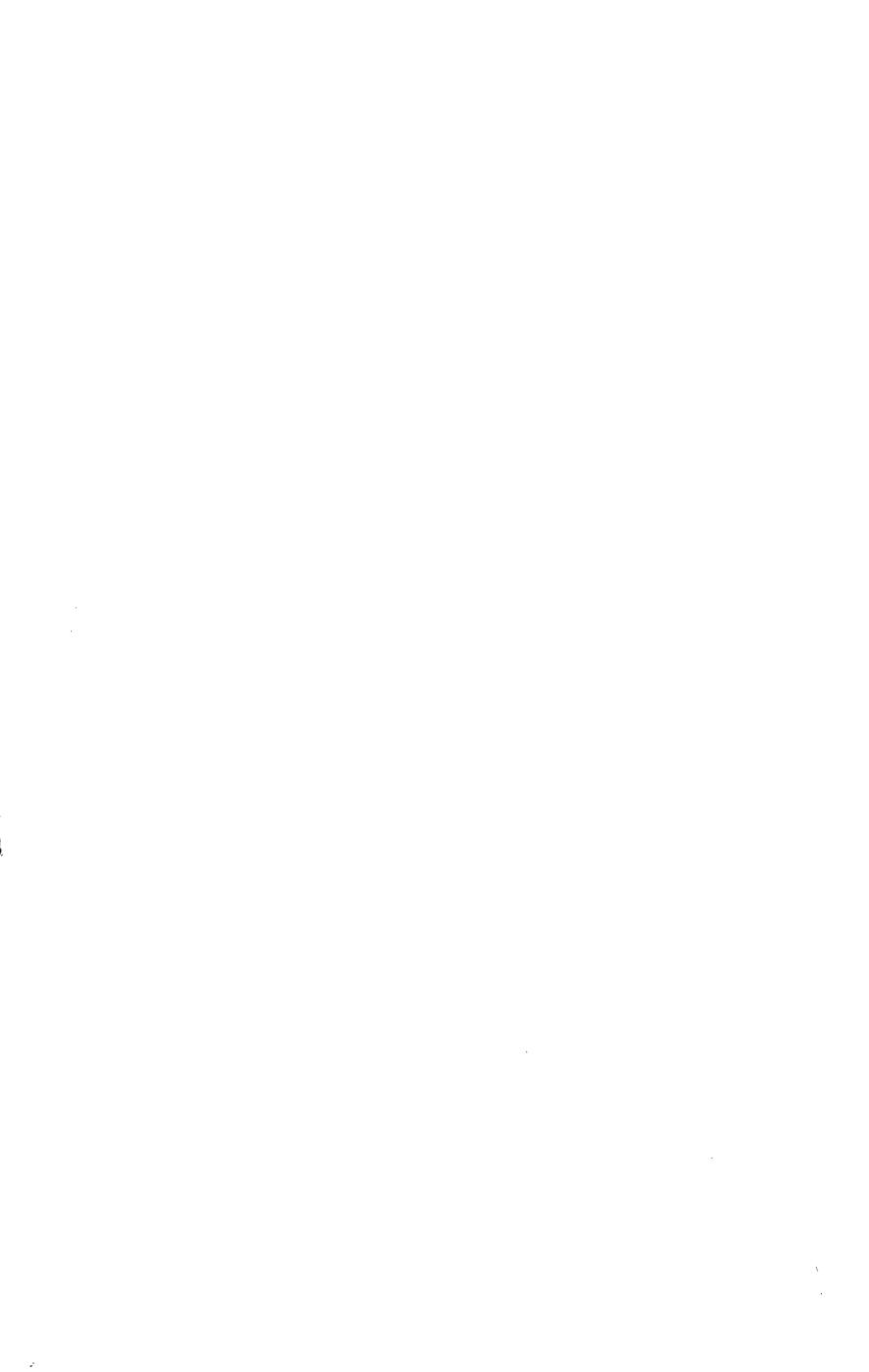
> for Congradumes. Then to Golden's born at Inverses. The realingling operations have not proceeded very for and will probably not effect the bats if frushed before nept March. Tourd two Mystra colf. under tim on stair landing, one torpid barded moted cory mathe, and in the garage between beams one Myummeners and I barded Tadarda. Sefet between alena + Bolivae. Itil raining. I Mor. 19 Went to the Balmas turnel but no bats. Then to Muis Woods to photograph, then to the Farkspur tunnel. Much of this trund ferel-defin mater. you bats, Home 1/2m Mor. 20 Port Suveriese bot into 300 cold room

> > Very mense callyby great numbers of spring peggers between Olama and Bolmas. Many hopping across (and squaled) on road. also one or more Rasa aurora hopping across road about 6:30 P.m. Tur or more trillers.

Markatten Munico, 2000 H., 2 mi NW Knoxville, Napa Co.,

Bec 20 Left 1pm with Bloodel + anto for cretion + Montation. Found one & topd in alle at active but no both in ang of the active Mine turnels. However tero by anereles flampuretatus in the offer tomel about 75 feet lack (right at the Rhiney cover in). Several ting over about 1 wich long were there too but not collected. aimed Mangallan ofter dark and marted most

of the trundo between 8 and 9:30, but not OP or



Caterings. Found two toopset & in Mangaruta tunnel, and 3 (2 & & and 1 young of) in \$20 House thell. Two avoke excepted from turnel just outside 20-House Hill . Might clear, moon almost full, lowest temp. 44° during might

Dec-21

in oftuned and 1 Mm theorodor, alterfrom. Temps of turned \$50° In Cateronha 5 & and 4 5 5 of temps. 49°. Also found a young and an adult of in stages 20-Homes Hill the bod curied since hast night. Killed them at once (qp. sm.) but stoursely + intertieres empty. a third one that had come in during the night (a penall), making Mangants. about all 9 flood milly drop of seven expressible. Sot distinct impression that the turnely weren to both distinct impression that the turnely weren to both preferred and places such as bottoms of next of shopts of good between the total and that the land properties of shops of species of cateronlast and a shopts of seven appearance of several shopts of seven appearance of cateronlast could strongly turned was 49°.

some cowered to rearly one tree, circled through too seepen froncher, and at truth, then off just clone, though, or even under the chaparral, one or more hung up in the chaparral, we were surprised at how how they flew.

Blooded food about 10 mostern specials cloud Att edged chamise and gross-cought withing and and in the Knowlet turned - I know true.



> On the may have between prostelles and Napa som several dozen dem modfesters along one stretch of road a mile or two long. Skidor, 5700 ft, Lugo G., Colif footed in one turnel along the road at Alidoo . It was a long cold, slightly drafty trumel. Found one torfind of conjunishmine while driving up out of Doth Valley at 6 p.m. som many mother flying, temp. of the measured out commident unas 47? comped just north of Love Rine at about 9 p.m. Very rundy, temps in low 400. In model of night (clas) temp. was 35 het at dann 20? toward the neatern frothells. When it become lighter we saw a turnele in the hills about where the bot was beding. They were worm 58°, ruth have missed many in the creeks.

Swammy Care, Shorta Co, Calif Left I form with auto, drived Subway 8 - p. m. according & Parrisher the autum has been very sould, last night are of the few cold nights of the year. Tooked in Lubrary Cove brefly. not many riceles or ice stalogunter. so tate in north branch, which was rather drippy, the sleeping chamber much too wet for sleeping of south branch. more flying, Jorded in Subway again; nothing in north braich; quite a few in south. Only I in the usual hibernation chamber (37°F) all the rest on high orling of cross road (temps 32°). All torped.

			, .
, "			

was surprised at the shortings of young bots. One was war very light, ears ofen, worthund. Nove kept.

In Pairish care most of the bats were in the high-cerlinged part, only a few books in the stooping part of the turnel temps. about 33° where late neve. Again few young bats. also another light morband made.

Inour t sheet overnight, more snow and rain during the day.

about 2 feet of snow had faller on the hills between Burney and

Redding. Even down at the 2000 foot top level there was a foot
of snow and the rood between Kedding + hed Bluff had heen planned.

Mo snow at hed Bluff, Lowever. Home indust.

Fah. 1

Sept 7:30 with arast, fandry, Benson, Muss Benson, Carl and Mary Koford for Knopville. Mary Benson, and Carl booksed in Catacomba and Mongamita turnel and found and 6 Cory, 2 of them banded, In Catacomba the ferrales were in and parts, the moles in marrier. The next of me looked in Of Turnel (4 Cory) and 20. House - Hole (0 Cory). Then drove both the road that goes bock past the catocomba to the end of the road and found one other

•	
	\

large branched trumel, not cold, no bats in it bent might be good summer roast or night roast. after lunch ment to the Elephant Mine for fret time. Both shafts were full of water. Several old houses but not good roasts. Then went to Harrison Mine. The only still found were two in a gulch well down below the old mill. Both were small signed (aduta) but are bod 3 and the other 2 Cory; one of lock was a barded one from Manhattan Mines. Mary looked in the two Kerd Mine turnels above the road and I looked in the one below the

road. The entrance to this are to had coved in, leaving a just - enterable slit, but the cone-in-had at danied up the little stream that need to come ant of it so that it is now warst - deep in noter. Home about 10 p.m. all bats mere borded & released epillet I Harrison Ming bot Hot earped unthant barding

Tilder Park, contra costa Er, Est. +eb-18 In late ofternoon put 50 Shermatraps 130 byme, 20 by anta] in grass and common on slope across from Comp Kodre. a few signs of neurotus and brush ruthit Feb. 18 Catchinas 3 adult sourther and 10 Rentho.

One sherman beld 2 Renthers, a of and a q.

Feb 25 Port Shermons on slope across from Comp Podre. Mine allalong edge of arternisia, antes allin Commen



Feb. 26 Total cold 3 dorch voyram (one of then won upon the edge of the artimismo), 5 Perompeus maniculatus, 6 Keithrodontonys, and 1 Meroties. about 14 mel of snow and hard fell between 6 and 8 a.m. March 4 Portant a different line across from Cough Padre, both unine and ante s in grass - Comin, Total 100 Museum Specials bouted with walnuts. Month 5 Ran trops and related. march 6 Prebed up trops. Total for two nights 30 uniotus, 10 South voyram, about 15 Reithra and about 4 Keromyseus Moreli Put 50 Delusion him trafes in comin-grass about camp willows. morch 12 Conglet 2 Pero (released) and I Reithro. Left tops out and set also 100 Museum specials in comme and grass overs from Course Portre. March 13 Fine live Butters in the live Cops and your the suff trops, plus 8 Microtus, \$ 5 Pero, and 6 Lover vogra March 18 ante and fat \$0 live trafs (Delusion) and 80 snap traps at 3 places in tilden. Love Comin, same dense grass, and some artimisa slofte. March 19 Cotch was 1 Mms, wo shews, 2 Pero, 17 Renthro, and 8 Ameratus. The Delusions in artemisia (about 35) caught only I wouse, a serverotus. Left traps set a Ran them at 6 and had 6 microtus and 1 Pertiro and 1 third-grown buch rather. Mark 20 In a.m. Lod 17 more Perthro, 7 Microtina, 2 Peromysene,

1 Bergnothus, 2 Sceloporus, and 1 Treturns and 1 song.

Spervion. Both Scelof were big males that had gove into

Mg. .

.

delusionline traps had bod gotten their hifes strek in
the 7-mm slots trying to get out. Their scales helpst
them from bocking refs.
Total for the 130 traps for 2 mights and I day was:
35 Reithro, 21 Mierotus, 4 Kerongsuns, 1 Revoyrathing
1 Mma, 1 sparrow, 3 Scelefrorms, 1 Truturns, and 1
small brush rabbit. The latter was cought in a museum
special by one hind leg (not broken) in dense Comm.

Moul 30. 65 Sherwar + Benson traps in Tilder Park, half in grass-artemisia slope.

Mouch 31 Right clear, light frost, caught 1 Perograther, 1
Peromyseus, 3 Loveh vograms, 7 Muentus, and
10 Rethrodontungs. Sep ratio 900 to 199. Fast week's sep

copiel sept out the 30 trops in the arternaise line and conglet, mieratus, 2 Peromyseus, 1 Sorep, and 2 Keithro.

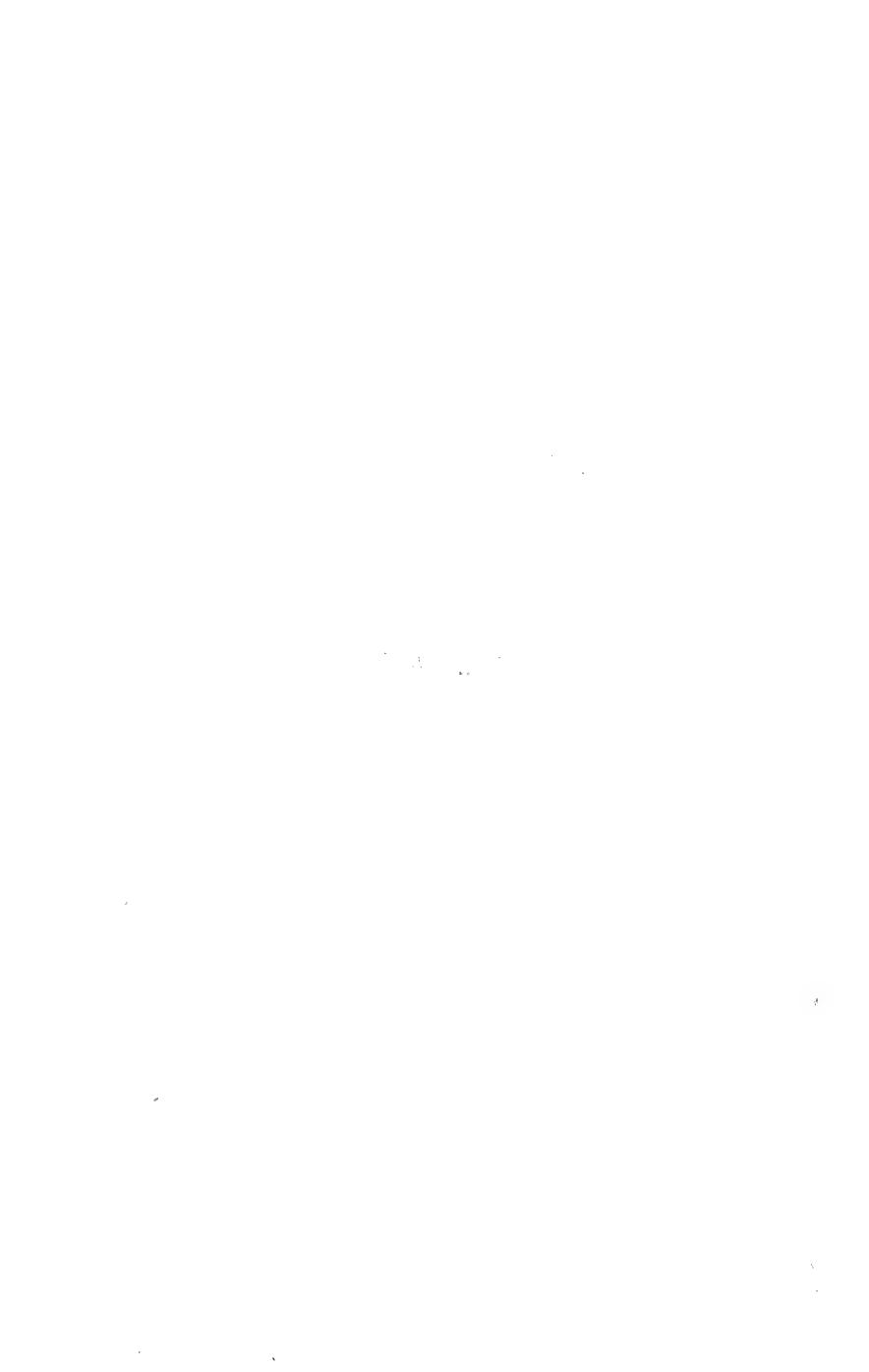
april 2 Some how, cought only 2 Berongoens + 1 Perograthma april 5 Thirty Delus in trops and 30 Benson in good Commin gass in Tilder Parks.

april 6 One Reuthro & in the Delusione and 2 (10° one f) in the Bensons, also 1 mierotus in the Benson,

During the day of Mieroties in the Bensons.

April & Four Reithrox and 2 Mieroties in the Delusions and 1 of each in the Bensons. Presed up the Delusions.

Jeft 1 p. m. with Builey and Greenwood for Marin



> Co. fort 35 museum specials in the grass - alder grove at the further skill beach and 15 to me sedge-gran needow along the main rook where to stell beach road trumsoff Downld put out same.

aprila Total catel (meliding Greenald's line) 7 Lovets, 15 Persungens, and 3 Merotine in the older swamp and 2 Lover, 1 Kerthro at Mr. Golden's Barnat Concress to book for bals No Cory! no Mayotis on stair landing. Only bats found were todarda in the garage. They were cold but able to scramble. not alle to fly.

april 11 Put 75 Skeman outred in Tilden accompan Comp fodre in Commen + grass, 6-7 pm.

Three skrems (ornatus), 2 Peromyseus, 2 Micutus,

4 Reithro (all moles). Left trops set.

april 13 Three Keithros (18), 4 Michitus, 3 shrows (ornatus), 1 Peromyseus, I lorge of Truturus, and I mole curket.

Samill, 27 mi. NE Globe, Gela Co, anyona Dowing from Son Carlos to Corso Son Will som a land of about a dozen collared peccaries. They had her hiding in a large cultert with me drone past. No body ones. They neve mor cassodure springs in deart country but wear tte beginning of prises. Sperit right ar a front pouch at Down Will because of rain.

Vent effloring morning - mostly open, grazed yellow fine but ooky and grassy on some vidger. Sam signs of

·			
	•		
1			

gopher, squirel, roccoon, and wood rat. One wood ratrest was construted of two and house manure several brokes in sug. Some run in p.m. Put out about 80 Museum Specials battle with walnuty mostly on oaky-grassy ridge north of camp-quite rocky. Jooked for bats around the buildings at Samuel of dusk but som only one. Short jælsbytting but som nothing. Moon full.

Temp. down to -2 C. In traps were & Revorageurs (3 of them true and others morphe boglin) I young meatoura, and I Entamas. all in rocky placer near tops of ridge. Skund in a.m. Her got two more chiffmunder in the trops and shot one hyard (Sceleparus). Daysung muth scattled clards, temp up to 17°C.

Jockhaghting in evening. Toods Trilling in evening. Conglet 5 with Johanston in one of the small reservoirs. Myst dear, trop down to -4°c. Same trap line

cought no Perorngues, 2 Mestors, anelizard feeliftorna) Went Appoing on a m. for letter traffing terrain. Sow 2 white- and deler, shot one cotton tout, two squeres,

ove chipminh and are w.f. mithatch but found no trapping place that looked like it would give more

then Perougans. Let about 60 museum specials

botted mith walnuts on the rocky- grassy vityo top NE of comp. Mostly story with some gran, scattered oales,

large furnfeitres, and occasional yucca.

		•		
			•	
ે 				

april 23

Trops held 4 Peromyseus (train and boylis). Might clear, temp down to -2° c. Moon slightly past first,

Prove to solde and both after lunch. Som 2 Citellin (collected one) between Sourcill and the main rook to the worth.

Then stopped at Mc Millan Mine, 4500 ft; (4 mi. NNE Solde to look for bats. Jooked in one mise long tunnel that mas perobably between 50 + 55° F. Found two topid extension and q toopid Congruenting. Between the corrigated iron over shingle roof of one of 3 adole buildings were 50° lively antrogons. Collected some of them also. More of Cong fort.

Joelsbylting after suffer to Reservoir below Sounds.

Joelsbyhting after supper to Reservoir below Low Mountphiles. Several smallbots flying over the reservoir, Low Joekrablit.

april 24

Traps (some line as yesterday) held 2 Peromyseurs.

Traps (some line as yesterday) held 2 Peromyseurs.

Things that. Went to Casadore Springs at 5:30

and set 60 mesers specials in The good desert

rear tere (stone + allerhent operation, jumper, randers counting

should ste). Many lats flying at rank duch a shot 2 (Apratially

Joulshighted but some nothing, atthough head ? elf? and and

great borred.

april 25

2 Dipo and 14 Peromyseus of 200 3 species.
Bots flying at dough werthe Samuel reservoir. Many Sats
flying - 200 3 species. Of 3 shot (2 by phinston) all were
Tadarida. Jackbytted home and around complete sour no

April 26 Snow, hail, and rain from about 5 to 7, but only about 16th which promptly welled unbensum came out.

Port out 60 museum specials in open pine - short grass, bouted with wolunts. Only hunting after supper, lead reveal flammalated but couldn't locate them, temp 3° al qp.m, clear.

April 27 Clorded spoluring night, temp 3° at 5:30. Trapline had one trop aforming and one chipping sparrow. Looked for solamanders inder stones and in big heap of decaying pine readles beside pool. Lots of earthmorns, no solamanders.

Tilder Park

May anta + 1 put 85 Sherman + Benson live trys in tilder Park, some near beginning of dog run (Inspiration Paint) and some Morth of Brant's 28 - acce area near cattail pool along fire rood. all in grass - Comin - weeds, Set for Keither May 2 Total catel about of Microtias and 4 Perompens. Left trys and.

mon 3 Rounduring night. Total catal about 6 microtics and 5 Herompans.

May 5 Pet 60 live trops and 15 museum specials in gross-comin - weeds in 3 places along the Prospiration Paint - Orinda road in comin-grossweeds:

May 6 Cought 14 Peromysena, 5 Meintena, 1 Reithra . Left trafes set.

•			
			•
		•	
			\

May 7

Cought 11 Peromyseus, 6 Meisters, 1 Perograthus,
1 Sorep tromb., 1 Reithro.
The last 320 trop mysts have given 2 Beithros!

June 2 prometo Point fobos with family to pik up so otter washed ashore at china Come. It was prozen up solid in a fish storage house, so we wropped it in a sleeping bog and drave to the Malpaso creek bot house. Caught allbut one of the tota there: 100 (may have been in sideally), 1199, 10 bolies. Many of the young alle to fly.

June 7 Bandel colony of comy in bolderie boun at I meruess.

56 adults, (8 of these still prog.), 42 young. 23 percent of last years period yours bod returned and 74 To fello adults; 13 To fall

June 15

mere non-producera.

The Bale Mill cory colony was present in the barn. Cought and barded most of them but about 6 to 10 got away. Termite spraying operations about the or as meets ago may have disturbed their some.

Most of the young were flying or near flying lent one 9 was still pregnant.

at actual springs the Margeress & said they were tired of the bats and this year had "sulfwed" the during work and some of the other buildings. Behind the buteter chuning were hundreds: of singotis yumanensis, and antroyours was in the wall up wear the entrance to the attice, cought one autroyour

		·	
			1

- a female with a mersing young. But no cory in the atte. Then went up to active Mines. In the two lower turnels som one backed or Cory (esepted). In the offer terred in the front half was the breeding colony, cought all exist i. most of the young nearflying age. also a very splotched block areals at some place as last autumn's in the upper tunnel . Therewer 22 adult cong and 20 yours

Then swam in Pope Creek and drove to Manhatton Mines. a bush fire was burning on the west slope right at the mies and the first who were there, so me sleft a mile on two further reform wood, som many quail, with yest-flying young. also deer, yound symmets, Jock rethito, weather Lot.

June 16 Fooled in the 20-house boll at markatton Mines. Found a few strong walls and finally in a short upper turnel open at both ends found a large cluster of & q. at least a dozen escaped, probably 2 dozen. Most young were flyable. Surprised to find so few of the fernalls bonded from last year. Total 25 new odnet 44, 11 old bonded fit, 21 young 676; 21 young 44; total 36 coult, 42 young

then looked in O.P. Timel, Mangant tunnel, tunnel

	•		
		•	
		•	

Mary's east turnel,

above wangenita, and the north turnel at the end of the road. Morrore of but one evotis in the latter turnel. Then swam in Pope cruele and home supportuse.

June 18

anderson for Inverses. Found a new bot colony. 5 mi.

SE of Inverses Park in other of home who steps on NW

corner of side roads. In ather were 2 major chatters of

4 Exptesiens with young, with of Tadendamifed in.

Captured most but not all. When approached they tend to

crown mitted of fly. They don't drop with the net like

corn. Barried of Todavida, 29 odult Exptesien, 11

young of and 12 young 49. Kefet 2 lactating and

2 pregnant females (most were lactating) and Twentery

left about 3 Explesions and 1 Todavida. Released

the forded ones on the parch of the house across

the side word.

Then ment to see Woody Williams at the old Rotal near the center of Inveners. Found a colony of Todovida in the certify on the top floor, south site, but couldn't get at them. It ducks twentry netted Mayotra colfornias by starting on the roof and surrying at them as they flew fast. Then to Mrs. Sevideric bases at 10 pm. One adult Cong in the chatter of young. Four unbacked young were barded of ther bard numbers of young were not read. My other bard numbers of young were not read. My other young in garge morn.

	•	
	. *	1

Tilder Park, Contra Costa Co

June 20-21 Part 90 slemme with ainter about 5 p.m. in our Ministres are ourons from the golf course, some of them further of the hell than the heat mirestric Robitst. Warm cuttings and runnings; som 3 Ministre and 3 nesta while setting. Many runnys spottered with white moterial, as mentioned by Brant.

Ron trajes sept morning and afternoon and the following normung. Total seve (2 mights, one day; outness fait)

11 Berompena maneration, 7 Restoro (some your, some adult), 3 Loreh voyans-ornation, 28 Microtis. one of the Microtis was one of our bounded over.

July 6

7:30 p. try. Barted with outward, strass your really dry. No files of green cuttings as on fune 20-21 when wast of green was dry but still enough green staths for mice to cut. Found one Meriature west under a stump and band-cought two young is it, about 3-4 weeks old. Pulsed up trops this morning, only found 15. Catch 5 Microtine, 2 Pero, 1 Mms, 1 Reithro.

July 18 Drove to the Bolisman turned with corning and and found family. Fooked in the turnel about 2 pm and found one torpid & cony and a cluster of about 65 anothe. Cought of 58 fterm (none banded) and bounded them. Only 3 moder and a half-dozen young ferralls.

	*.
,	
ý .	
	٠
•	

any, 13 Port 88 snop traps in Tilder Park ocrose from

Camp Padre and olev at a new place further south.

Batel bolf with apple and bolf with walnut, 7 p. ser.

any 14 Tuked of traps at 7 a.m. Jarge aras of the hilleride

growing to thick, tall, warre, round stemmed grace plus

scattered commin have few mouse sign and few

mise. More mouse sign near outs, fiver grasses,

thistle. Total score: 13 Renthos, 14 Peromycus,

7 Microtic, 2 Josep omatur, 1 Mms, 1 Revognathus.

Jone of the Perimpous were small grey grueniles, are

part grey part brown Moserall anieratus atthoughouse

was pregnant.

Sept 26 Post 35 Museum Specials at 7 p. ing tilden at the Mierotus-banding place. Baited with outgest. Saw or heard several sewinging Mircrotus who setting and som one Beither or Mine. Tour Microtus were cought before we finished setting. Great borned and owls nearby.

This morning total scare was 8 feether, 1 Mmr, 1 Bero., and 9 Ministers. all except 1 of the 35 traps was spring or beld a mouse. Several bod been drogged away by a larger animal. No evidence of bruding of either Reithro or Microtia, all in good shape. Some Microtius with considerable green watter in stornach despite fact that me green grass or herbs are wishen to area. Dillow Beach, Marin Co.

Oct. 19 Left 1 p.m. with class for Dellar Booch (Benson's manual class) in Bons. arrived Marine Station about 4:15 and set 36 museum specials in thick tall beach grass and

,			
•			
			·

very sparsely regetated sand dunes, also 15 shermone in grass and sedge along crek about 2 mile east of Dellar Beach. At 9 p.m. ran the beach years and sand duna linea and had 2 Mireratus and 4 Perompens. Quite a few Mireratus dropspungs in spots and modelimts runnange. Munerous rabbit droppings and fot? tracks. Sow two yorkingthits while setting trafee. Might clear, worman, but windy.

005.20

Loge Hen Creek, U.C. Comp, 6300 ft, Siever Co, Calific amind U.C. camp about 3:30 pm. mon 3 shorth Grimel Club. Set 13 Sherware and 7 Munaeum officials bailed with molunta along the observe above the headquarters. Almost all pet for water shewn for while the terrain books good. Also set 6 Schuylers for flying squirels. Terrain about half snowing half bore, the result of melting of about Timber of snowing - half bore, the result of melting of about Timber of snown. Might colin, clear, below freezing soon after dark. Jordslighting after supper but som no

Trapa cought only I mouse, a Minatur (montains) on a long in observe. Herd Coyote, Traks of snowship or joch rather in soon and deer. During day som several yelder-months and chipmaka, shot one shipmaks. Left 3:30 p.m., home 10 pm.



SPECIES ACCOUNT MAMMAL

		,
		`

Congnohimus rafinesquei

March 20 Heard considerable squeeling in the big cope in the basement after support. One of the new Jussen males was pursuing a virgin q, who appeared only souldly cooperative (she later turned out to have no large or medium folkele). But in one of the other myin female, who behaved more recepture. The 5 approached her from the front (as he had offerwarded the others), assumed a rother close ventre a ventre embree, then nuggled her thoroughly and expectelly oll over the ventral surface, fore, and forearms. Meretion or intromission. The was hanging from the wird calling. The did not object by equeling as did the other 4. Occasionally he seemed to be trying to work around outs her book. Several times she flew away from him. He would set out to find her, Ent of sparently could neither see nor war her lake made no undille sound). He would often offerook a toy it wall and start magging it but would become discouraged after perfore 15 seconds of this with no exposer Hi boen offsrocked and magnes a Freantly dead wall hanging from the side of the cogs. I requestly be would examile the less-registers jende and receive his courtry of her a while furewing a ferrale to made a war one occasion when, after much front myzing to worked around outs to both of the ferrale. The was banging by all four from the calling and was unalking slowly serves to calling with him mounting her from behind. No rithormssion, Kowever, or peline totales. The continued for perhaps 10 seconds and remarked

'A

rother unskilled, and was further basefiered by the foot that he food difficulty locating the fewall if she flow a few feet away from him. Occasionally ohe flew book near him when he didn't follow her. In the morning no sperm effressill from the got the unfression that the male was rulking the kindle with his work work affects. A distinct batty order was noted several terms.

,				
			•	
				,
				٤.
	·			V

PERRON, O.P. PERU, S.A.

DECEMBER 1951-MAY 1952
CATALOGUE NOS. 3370-3938
JOURNAL
SPECIES ACCOUNTS
BIRDS
MAMMAL
REPTILES

Catalogue

			•
•			
			,

5 km. S. Mayco, 1700 ft, Ogt of Son Pen

Dec 3,1951

That 8 A.M. accompanied by 2/3 grown for my Lactating. Placental scars - 2 right; I left. Rat in stomach.

Figod 40 km. 5. Marco, 2000ft, Defet & Loa, Pern 2371

3371

20 km. N Cholo, Defet of areginga, Peru 200ft. Freg 3372

3373

swarming along and tolkalle also lower stream. when to spalle 3374 3375

3376

3377

12 km. 55 w aregrapa, Nept. of aregrapor Pern

3378 q Llava guancos

Prepart, feters 262×42×82×24 Height at 73×9×17×43/4 shoulder 43

3379 & Phyllotis darwin supestris

3380 9

testes 10 my sem. ves. large. 201x 608 × 24 × 25 2 ting early Ticks 186×94×22×24

Rio Torata, 11,200ft, 15 km. NE Torata, Dept. of Magnegor, Peru Dec. 7

3381 Tood

3392

3383

Todpole 3384

Dec. 8

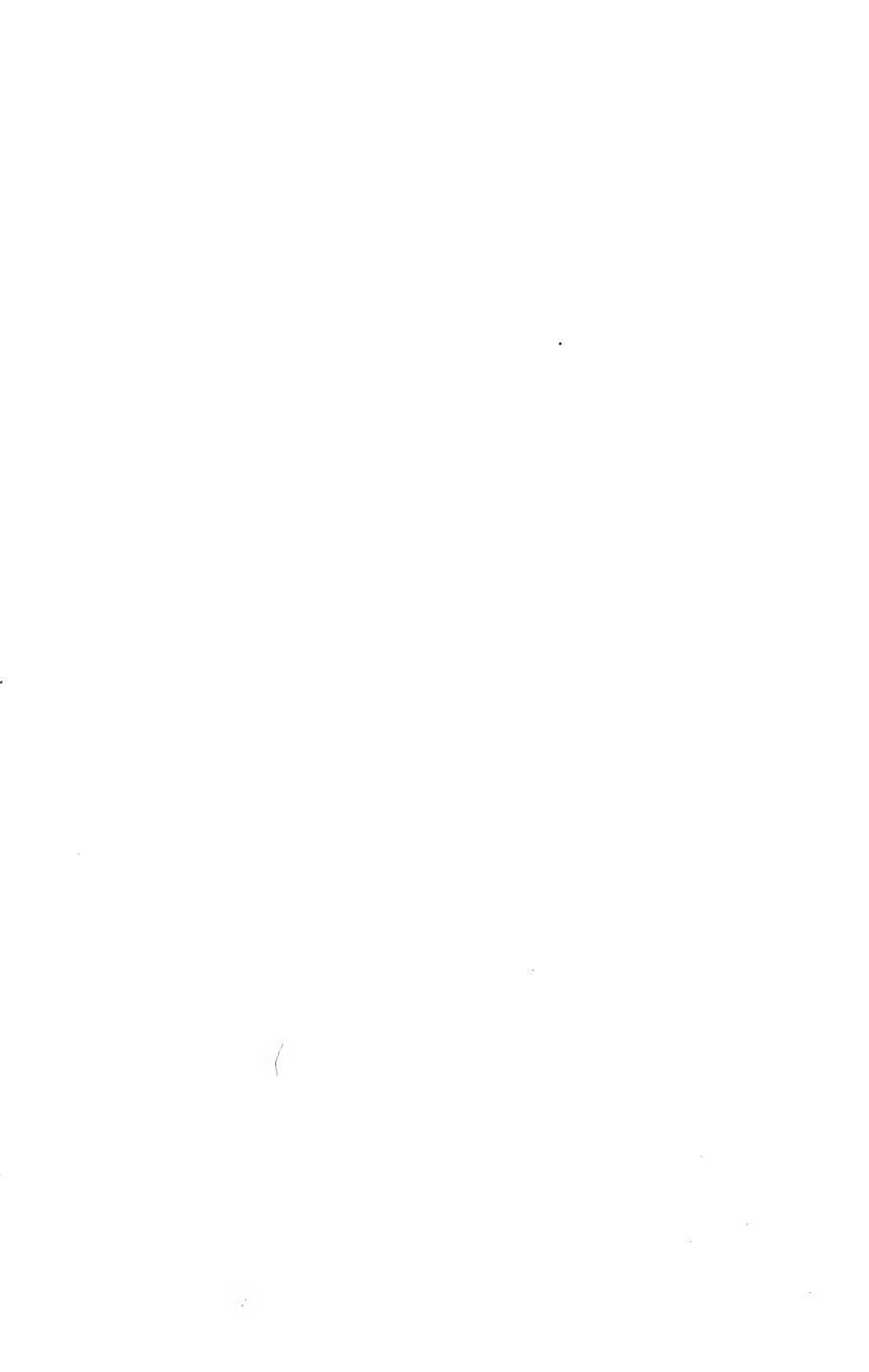
3395 & Bolomys berlepselin

3396 & Phyllotia magister magister

33 87 8 Chizhlotis darwini supestris

3388 Logidin peruanum

Lester 9m 159 x 66 × 20 × 14 wo and, we seems 235 × 127 × 28 × 26 tests 9 mm 212× 110×23×25 embryo 30 m cR 675 x270-90x76



P. PEARSON 1951

3389 Homming hind - taken at night on a nest in turnel of taken at night in turnel of taken at night in turnel
3390 " taken at night in tunnel
3391 Tood. compt under bush at night
3392 Tood "
3393 Drog
3394 Takpole
3395 Tadpile
3396 Tadpole
Docigo
3397 & Ground tyrant carght in mine turned at night should invotive, or a tring mine turned at night. Flew. Warm ova & mine turned at night. Flew. Warm
3398 9 dunghid mint timed at night. Flew. Warm
3399 + rumpherd muchumet at night. Fleer.
1 lorgard in turnel at right, temp 142, turnel 15
3401 9 " not soved. conglet inturnel at night on zu.
3402 8 Phylotis darwin rupestris 233 x 124 x 24 2 x 27
3403 & Phyllotis darwin repestris 241×118 × 24×26 testis
3404 & Cincloder frances ova 2m. with 2 nexthings
Dec. H
Logo Suche, 14,500ft, Dept. of maguegne, Ren.
Decill 1
3405 q Clenomys openins 28 40×7 2 lbs.
Vagira mostly closed. Majsples 5 mm long, milk expressible. Codischenble mammary tissue. Thous purvins but no sears. Orais muth no ing pole tes of CL. Stormer antents quen esquelle, Humens park.
Humens panel.
3406 & Ctenomys oformus valuind not afor; nleurs thin 1 m. No occas. ovaries fale. No fallo or conform Inter seem. Belling samuel.
all and of the
Having aparines open. Tripples 7 mm long with milk. 3 pr., Having hatelal. Uten thick, 3 m. No definite scaro. Ovories pale, no longe follo. or corpora. Utens sanch. Hereus sanch.
V

. , . • . .

of tenomp opinus Varia not open. Inpples 5 ..., no milk none lept, but some blood spots. Fetus 33 CR. Bath coo. 3409 Fryard Frog Rec. 14 Water 4°, air 2° 34*10* 1 6, air 2 3411 Phyllotis darwin chilensis 205 x 96x 26 x 28 3412 3413 Tyrout in mine at might. Riv Santa Rosa, 14,400ft., Defot-of Funo, Pen Dec. 15 Testie IIm, sem. see. Ango, 3414 & Phyllotis darwin chilensus 239 x106 x 30 x 26 4 enderst, 1 left, 7 mm. 2415 & anhanya sublumis testia 10, 30 medy 5-3416 8 Phylloto darwini chilenous 230x122x28x26 Rio Santa Rosa, 13,300ft, Delst. of Puro, Kern t skel 3417 4 Clenomago oformus 315x 85 x 44 x 7 Vagina open, much inquerol fat, and apillary, senforder, + menenluys folk-or CL, left on with (med-lege foll. alardon a deschie 3418 128 x 58 x 20 x 11 Vous strit, companiller, no mexico 7419 141 x74 x 24 x 18 Elignodontia preerulus hirtipes 3420 3421 3422 3423 & cteromy opinis 320 x 90 x 43 x 7 noskin nskull Voying closed, repples ting. much fat. Uterus stout,

fall 1.5 m, Reddish. Left ovary Jame.





(Son. 5 T)

9438 & mednin tiramon no skin 3439 9 9 21th

tester 14 mm +12 m. associating with 3439 aroupto 4 mm.

Hranlanco, 54mi. ENE augmba, 15, 300ft., Delst. of aregrafter
Dec. 25

Dec. 25 cought by hard at 11a. m. at bottom of maische comy.
U.G. ting 169 x 68 727 x 25 29 g.

3440 fanhscrups bolimensis

Dec. 26 (as above but 15,000 ft)

3441 Lyard

3442 "

7443

3444

3445

This and 4015 young (se 3442 - 44) conjust under stone. One row under these afternoon of Dec. 25 and others were seen under stone Them,

Still theret captured 8 a.m. Dec. 26. By AKP

Dec. 27

3446 & Lyand

3447 8

3448

3449

3450 Tool

3451

3452

3453

under stoner on flat

11

Timopoleo 13,900 H, 75 km W. of Puro

Dr. 29

3454 4 Phyllotia suffinis

3455 1

cought by AKP. mann. Trasmo. Pregnant, 169+50/23+23 50g. 2 left, into rogin of some mount. Estrelia? 143×49×22+20 31g.

15 km. w dlang, 13,000ft, Dept. of Puno.

Dec. 30

3456 & Mothura

soredning of lag. Teotie 10+7. arch 2369. Inlying with feether, work of them 15 mm over a form, such and one clover ling.



P. PEARSON

3476 Inske

want. 3457 & Hesperomys dualla 106×39 × 16×15 12 gums. when shout hat no onl. 3458 & Bolomys amount embyra12m, 2 nt., 1 Sept. 237×114×25×26 56g. 3459 & Phyllotin darwine chilensis 5 km. W. of Proof, 13,000st, Delst. of Rome, Dec. 31 Cetta 10, sem nen, large, 23 m. 3460 Phophota darwin chilensis 219×1111×26×23 429. 3461 & Phyllotis darwini chilensis 27 x 109 x 26 x 26 609.

3462 abodon boliriensis 146 x 51 x 18 x 13 229. 4km, E there Juli 12, 200 ft, Post of know noul 3463 4 Phyllotis darwini chilenses 232×123×26×25 " no end. storm thin 231 3464 & Phyllatis darwini chilensis 174 x 85 x 23 x 22 int. start but no ent 45 g 3465-4 Chrocongs jelski 186x74x25 ×21 3466 & abodon boliviensis 168 × 69 × 20 = × 16 349 testis 6m, sem res large. 114×43×16×15 12g. 3467 Heaperorys duilla Det & Pino Jan. 2 4 km. E. July 12, 600 ft; eggs in first few days of iverbation. Owdered large, followed to Im and 3 c L. 3468 q Hummer. 3469 f rows species as above. On vest in core at right.
The restling almost roody to bare west. ? grass
Follow is m. Toelynamis skull odne 5 x 70 x 24 x 18 46g. 4 Chrocomyz jelskii cheatunt crowned fly cotaber in come at mysk with 3469 190x 0x38x21 2lla: 3473 4 Sales musteloides meples long. 2 amb. Compe gram (1-1. Weft starlling, over ting. 3474 9 Spinotail? 7475 Took

4 km. NW Pometa, 12,500ft, Defet of Puro, Peru
3477 8 Phylletis osilar osilar osilar 265×138×26×22 620.
3478 o Phyllatin darwin chilenais 250 × 119×26×26 646.
3479 & Chrocomon ielakii 130x 25x 20 380.
3481 9 " " 227 × 115 × 24 2 × 23 749.
3482 Felia Cat skent, prelante.
Jan. 4 Voring not offen. Harne slender, went,
3483 & Phyllotia darwini chilensis 220×115×25±×26 36g.
3483 & Bhyllotia darwini chilensis 220 x 115 r 25 \(\frac{1}{2}\) x 26 36 g. Completion nest in case at 2p.m. One other escaped from rest. Both good flyere, 8\(\frac{1}{2}\) g. testes I
3485 3 Skulls from 3 owlfellets taken at humber came, 3 gt. horned ands sean at some place, although pullete were born and size. Lee for andinamys.
Lee for andinamy.
Jan. 5 (enh. lefthom, 18m, 2 resorbing (1nd. 1844)
3496 4. Como Dalea mustelades 230×0×40 29
15 km. 5. Plane, , 12, 600 ft., Defet. of Prov,
Jan. 6 testa 12, 5v hoge 26m
3487 8 Phyllotis darwini chilensis [206] x [92] x 262 × 262 549 3488 8 Phyllotis darwini chilensis 217 x 110 x 27± x 28 539.
348 & Phyllotis darwine chilenses 211 x 110 x 27 ± x 28 5 39.
Howarda Sorapa, 12,600ft, 33km & Plans, Dept of Pung
3499 & Happreameline 40 = "x 4" × 11 = "x 6" 39 lbs, Teater 14", 3490 4 " 48="x 3 = "x 13" x 5 = " 50 lbs mins
guts (mesture, liner, stoured, blood, and utom
Haseinda Pairminin 13,000 ft tan. 7
Hacierda Parrumani, 13,000 ft tom tonley fild Borley in Crop. 3491 9 Perdis no bood fath, or a 8 m orange, next enables 4 mm, prasilly a cualist.
another own, prasilly a chalse.
Logo Joriacota, 15,000ft, Delot-of Puno, Pen. Jan-9, 1952
Logo Loriscota, 15,000 pt; Delot of Puno, Pen. Jan-9, 1952. 34928 Ctenangs opinus (Testis 11 mm. 330 × 98 × 45 × 9 3/4 lb of no fat.

			-	
,				
				·

P. PEARSON 1952

Havenda Parmani, 13,000ft, 40 h. 5 Plane, Detat of Puro

3493 Tood in stones along Ro Avangue.

3494

7495

Pampa Vnococha, 15,000 ft., 120 lan. S. Prum Defet dellum Jan- 9 wardering out in Festiva - two desert in deylins

3496 Tood

5 km. E. Lagran Such, 14,600ft, Dept-gmagna.

3497 4 Timerotra 3498 9 "

Jan-10 Langlat fall. 4 12 mobile of them 1.8 lba, Cecum 150×25 on each side: Crops buying mithillussome + lenes. One of two with 3498 2.0 lbs. mo broad fortal allowing foreills dry

fan.ll

on the census area

3499 Seosita? 3500? Earth-creeper?

249 scaley broad patch. April adult. tealer 5m. 15 2 g. In Festiver- stone desert , should win.

Jan. 12 3501 & Elymodoutra puerulus hirtiges

cought by AKP. Teath 9, sularge carght by AKP. Werne stone & voncies laye, 127x 45 × 19 × 13 15g. went.

3502 & abodos andrus 3503 Lobemm

swort anna 35m, about as snoll pray seen Ovarbout Im, spellow C L also, oriolette fairly large. for two census area. I want aune 7 5 mm.

3504 4 "

35

Vagura not open, suppleter 3 m, normalle

3505 & Ctenomes opinins 278 × 80×42 ~ 0. 5 miles of the studen 36 m CR.

Mo eL in left many, passable 2 in 17.

Jan. 13

Tood nostri of tenomys openens

From station 21 of censur arem at 11:30 18m, sking, not functional. not for.

		٠			
				,	
			,		
					•
				۸ .	

· ,			
	,		

0.6 lbs.

3517 otenomy ofmingin

shot 11:30, 13 gde from station Do miles, Die, 205+62+ 30. 769. + Hen. Tester 4m, Stower with below moteral

3518 8

shot in a. m. new bus. testice 11mm, 318 x 99 x 46 0.86hm sem. ves. 24m, slevolls.

3519 of Dusieyon

Jan. 16

stowel with legard, bird, T visita? hide ther. Ceneman, tropped in a.m. 4 yas. from station 11.

3520 9 Cteromys ofsimus open. Nighter 3 mm. No mieks. Pregnant. 0.5 Rbs. one right how. 41 mcR. Left how resorbing lump 16 mm. one confus later in right away; one in left. Right away separate. getus a 1.

shut mean hows. 3521 HAF Clenong ofring Vagina closed. Nipple 5 mm. No milk. Uter with inditional placetal ocars. Rt. orang with I medicing fell. Left orang with I med. fell.

no many time shot down the road. 258 ×74 × 38

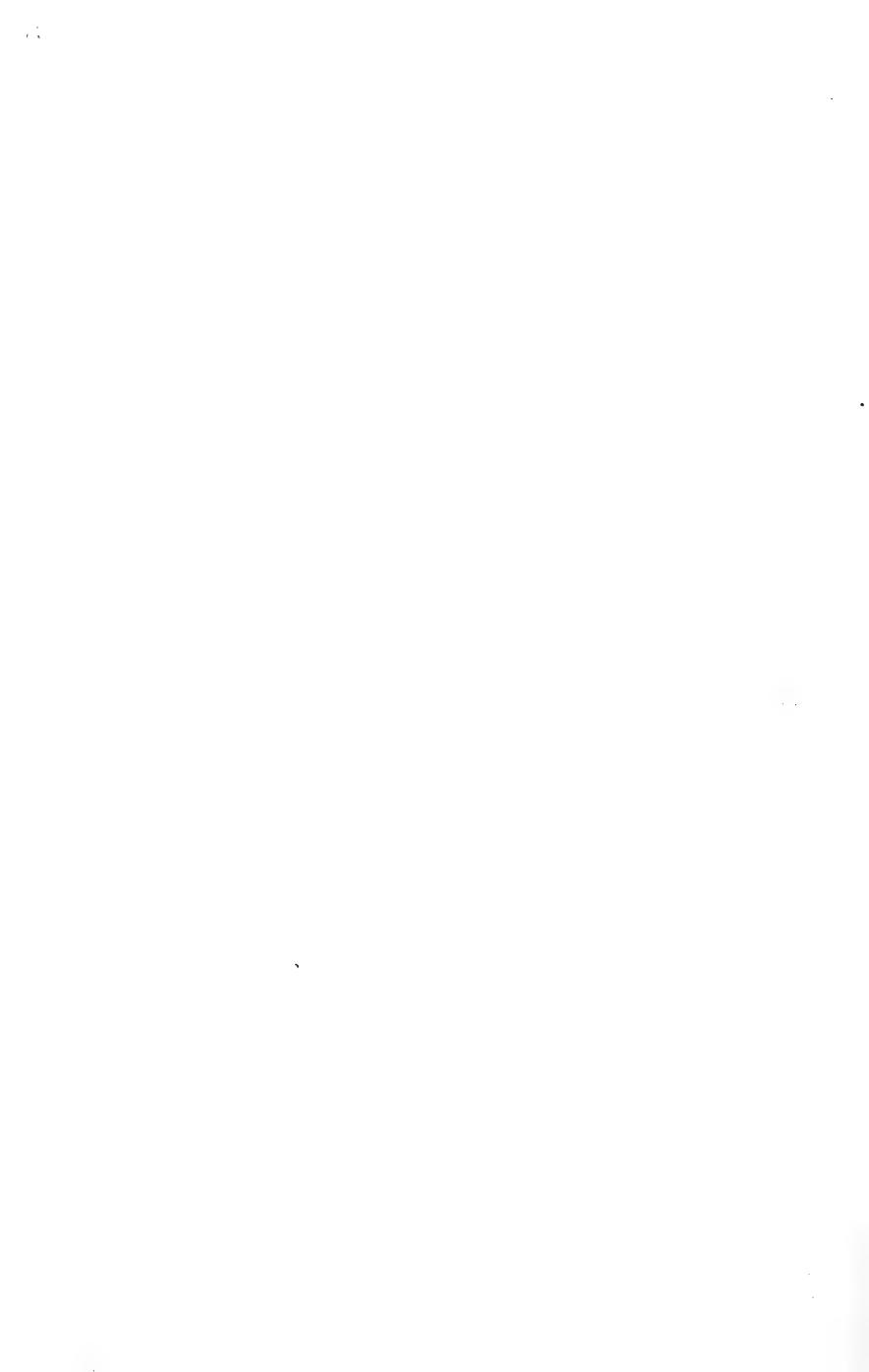
0.316. Vagina closed. Nyther tiny, less than 1/2 mm. Rt. arm with forsible bullet would bealed, from our previous visit. Longest st. toenail 15 mm. hongest left Teach many lice.

shut down the road 3523 7 0.4 26. 270 × 86 × 39 vagina not open. Nyples 3 mm. No milk. Utema 2.5 m, anoth me seems probable scans- 1 st, 2 left. ovaries with small folls.

shot in A.M. down the road, 3524 7 293 × 88 × 39 0.5 26. vagna closed. Niffle 6 m. 5 ome miste. Placental scans - left, 1/2 nt. Rt. owny with I medin foll. Left owny with some follo.

shot in A.M. in other had d 32(x 103 × 45 0.8 st. 3525 0 Jestis 10 mm, flably. Seminot wesides 22 mm, their Testis pared. Lice saved.

3522 早



3526 Ecterongs ofsime station. by AKP. Vogina closed, supplete tring. Varie thei, 12 m, no sears unature bravies with small-med. follows: storoch until grand of roots + lives. slot in a.m. by AKP. Teatra 10-m; 3527 8 296×83×42 0.7 Rm. Sen. rea. 15 m., slendle. elot in a. m. ag AKP. Vagnin strek skut hut 3528 9 " 295290×42 0.7el devalle by tretor myfelle 5 mm, no mills, Knymmel fort + mesenteric etc. Pregrant / smelling it.
how 10 x (b), left han with probable faint percentul
sear. It on with 2 C L 2 mm in drain and 3
large foll. Left on much maller, I med fold?
Embryo in dear weigh, neural fold alongs. Shot ina. m. by AKP. Tester. 12m. Sermiolveriles 25 m, thin. 3529 6 Cterongs oforms slot by AKP. Vagnin closed, rulpho 4 3530 4 no milk: Jossithy 1/slocested search early 1/slocested search search start AKPin Am 10ft from 3532 3531 8 " jun. vegetable pullin storrech. Tester 3 2 m. slot by AKP 10 ft. fram jun. 3531 3532 9 Vagnin closed, nijefels 6mm, milk. I scar eoch Lom rogin not open. Much shot 3533 4 " " Jun 240± ×75 × 37 0.25 lla ± stormed unte crosson flower facts. 3534 & Lolsenna knownt-own 90, belly pole orange, pre-and thousanderse line bright orange. Storoch with 2 crimion blossoms and a large beetle. Testra 9m, spherios, white, tulides exists winter entfort to fore-and enlarged sides of \$534+3535. Stoward with one cruison blosson and large leaf of Mototale, and one small fly. O raise with follies to me and yellow ch. 3536 9

	J				
				•.	
,					
					,
					·

PEARSON 1952

3554 9

7537 9 Lolarum not sand. Sweet-aux 75 m. Belly sphotshed gray but not yellow, a pre-and plates not enlarged. Storred continue leaves + llossours of notative. Talkole 2 m., 5 in ove owny, 4 in other, also small orange ch: Omdestaflat, 3 m unde. 3538 3 vot sued Apacked young, sound-anna 36m. testes 1 mm. 3539 8 Junembe 32 m 5A Parte Advaitire, 14,500ft., Tutupora, Dest of Monargun preg. 1 left, 4 nt , 16 mm CR. much warm trans, 4 embryon (burgh) rt for Mys 3540 q Hespernys ducilla 216 × 93 × 27 × 25 3541 9 anhoromy, bolumenais 187×75×26×25 Volcon Tutifico, 17,000ft; Defit of knogregor, Perus 3543 & abodon bolivensis 135 x 52 x 21×12 295 stot belied when hut rear suffer shot behind redring but man suffer rune; Loop Auche, 1415 volt. Defit of avogragion actali, svlarge. 223×112×27=×28 619. 3544 8 Phylor darwin chilensis 3545 9 Phyllotis darwin chilensis 209 x110 x 25 x 25 36g. 1 km. N Tarata, 11,000 ft., Defet of Tacna, Peru Jan-23 testis 12 mm., accessores large. 264× 131× 28×24 715. 3546 8 Phyllotin magister magister 715. 3547 F place tal pears, no iento. 242 × 124 × 27 × 26 58g. 3548 7 246 × 125 × 28 × 25 559 testic 13m, SU my longe 3549 0 274×129×29×26 939. 2 law. N Tarata, 1,500ft, Delet of Town, Perm 3550 & Bolomys berlefsselin 167 × 72 × 22 × 15 Brund embyer, 4 left 1 mt. 195×102×23 ± ×22 209 212×113 × 23×24 359. trates 11mm, 5 v ray large 270×143 × 29 2×25 759 ment

265 × 134 ×28 ×25

599.

				\
		,		
		,		
				·
,	·		,	
	•			

```
PEARSON
 1952
```

3 km. N. Tarata, 12,200 pt; Dept. of Town, Bern.

3555 8 Phyllotis 3556 & Phyllotia darwini rupestiis 3557 & Bolongs Lerlipschin

Cate 11, 50 25 my lays. 274×143×30×25 729. testra 9,50 very longi ; 2 8 mm 208×107×23×26 399. Jewh. left how, 11mcR 158×64×21×13

4 km. N. Tarata, 12,80011; Delst- of Tarna, Dern

3558 of Hippocamelus 54x 545 x 14/2 x 6/2" should 32 accessores laye tale Ton

3559 8 Marmoso

208×108×14×22

3560 q Phyllotia magister 296 x 154 × 28 × 26 P.S. Krobed at 5 q crosse Phyllotia from 1,500, none prey or lock.

3561 8 Phyllotis magister magister 300 ~ 156 × 32 × 29
textes 10, 5 v rem lunge 9 712-

3562 & Physlotin darwini chilensis 231 x 11T x 25 x 26

4 2 km. N. Tarata, 13,210ft, Dept-of Town, Pern 15/x 60 × 2/2 × 14 33 g. 5 vange 3563 3 Bolomys berlepschin

5 km. N. Tareta, 13,500ft; Defot of Tarra, Pern 3564 & Phyllotra darwin chilenais 242 x 125 x 26 x 26 44g. 20 km. NE Tarata, 14,600 to; Defot of Taera, term

Jon. 28 3565 8 Phyllotis der wine chilenis

testes 10, 5 V large, 20m. 229×118×262×27 529 Pres, petuses 22m, 2 nt (left) (resorting nt. 222× 11/× 252× 25 liver enormuns, 2 large fetures in

3566 3567 & Purange leminand right hom, 2 gm CR. feft own no CL,

196x52x 272x 25 1029 right ovary with 3 CL, hoge, one of them 4 min draw

stower unth swelly sogs. Love mounty tissue

3568 & aboption and in

133×51×20×14 219.

3569 4 akodon andieus

126 x 49 x 18 x14 159.

·

P. PEARSON 25 km. NE. Tarata, 15,200H; Delst. of Tacra, Pern 1952 3 whome seems, warm. tasans 3570 4 Phyllotis darwin chilensis 213 × 106 x 27 x 25 3571 8 abodon ardim 112 * 46 * 18 * 13 2 km. N. Nevado Livine, 15,300ft, Defet- & Tacra, Perm Jan-30 U.G. faire start but no end. 3572 9 abrocours cinerea totio 11m, flathy; SV. Zra, this. Traffiedby high 3573 o ctenomys opining & 303×83×45×8 0.8 lbs. Capago, 14,300pt, 123 km. 5. Plane, Dept of Prino, Rom Jan-3/2 womenpampa. Testro 10,5 vthi, 20 m. .

305-90 x 42 x 8 0.9 lbs. and for. 35748 cteromys asimus Pompo de avermarco, 13,700 st; 123 km. 5 Phane, Delst. of Puno, vapped by belly tates que, gv. this. 3575 & Cleverings opinina trafferd boy hind beg. mipple 5, 2 faterale, in Right how.
12 mcR, 1 mit hold resorbing 1 ch into orang.
276 A 87 A 41 0.49.
270×68 A 42 0.79.

At. Loru 45mm, Dleft 2 CL. Nt. overy. Bith link. 94 35764 3577 4 Manney turns, placent beare 3578 9 Phyloto bolimenais 213×90×26×26 799. V. G. that but no end or sent 3579 & Hesperings ducilla 103x 39 x 16×15 Between Copano and ancomorea, 14,500 ft. Delat-Blus testia 9 m white, se this, 25 m. Cought hop bethy-3580 & ctenomy ofsims traffeed by anna. Nifefel 7 mm, some mich but clan't 35814 " 270×78×40 0.5 lha, look used. till mounay tissue . 2 sears let how, nove it; noch sien. Lampade ancourage, 13,700 ft., 123 km.s. Rave, Defat. of Run Utrus this . sweet. 3582 of Phyllote darumi chilenous 212 × 112 × 27 × 23 379. ancomarco, 13,800 ft., 123 km. 5. bland, Delst-of Kuro 3583 8 Hesperomys? -testia que, sv lenge, 18 mm. 1



Parpa de Capazo, 14,300ft; 123 km. 5. flane, Defat. J. Pura, Pen Feb. 3

3584 & Eliginodonta fuerulus hirtiges 168 ~80 × 2 3 × 19 28g.

7585 Q Phytlater subhins

154 × 44× 20 × 23 66 g.

154 × 40 × .4 lbs.

267 × 86 × 40 × .4 lbs.

27 × 86 × 40 × .4 lbs.

289 × 87 × 40 × .4 lbs.

290 × 87 × 40 × 0.5 lbs.

3588 & Ctenonys afrinus

Testis 42m, 50 ting. Trapped in Festive - tola 230 × 70 × 33 × 12/ge.

3589 9 ... 3590 Shot on social field. Various closed. From 2 like ording the mpple 6m., no while; I fille it how. 25m eR, 166.

[275] - 73 + 37 it. ording, passibly 1 left. 0.4 lhs.

Shot on social field; an impative officers officers.

225 ~ 60 ~ 35 Verno 2 m., no seen. Veryon closed.

15 km. S. Mayoung, 13,200ft; Det of Puno, Rem

one of a pair. Testis 15 *11. Crops with green one of a pair. Testis 15 *11. Crops with green leave they of the property of the save testis + lelly stain. Postel associate of 35 91. Orndoot stay longs, or over postels 35 92 9 "

36 92 9 "

36 93 9 "

Start on broad patch. Crops as alone folia a feet follows. No broad patch.

Outlied some large follows 30 22 11, folias or outlied remarks a follows. Some forest of beth ask in Bomis. Crops as above to depart ask posts.

35 94 8 "

Peice y stain cancel in Bomis. Crops with terminal terms.

Peice y stain cancel in Bomis. Crops with terminal large.

3595 q Perdis. Orega pair. Mohrod Batch. Ora 30+22 mm.

Pampa de Capago 14,301 St., 123 lam- 5. Plane, Dept. of Prov. Por

3596 9 Ayord

76m5A ova about 2 mm.

3597 & Luzard

Testa white of my alward appeared totalle marks borektesto + tiding. Capture 3 day 2 when

			N.
			•

ancourer 13,700ft; 123 ban. 3. Plane Ofst. of Pour

3598 Trod

3599 Took

Mayorny 13,000ft; Deft. I love Per

F. 4. 4

Cestes 10 m, 50 my Ewys 150 × 51 × 21 × 13 26g. 3600 & Boloways Lerlepschin

Lating, sulage, 13 m. 0.

2601 & Heaperouge ducilla [97] · [19] · [19] · Para Campo anenllecota, 13,200ft, Defet. of Pomo, Pera

Fel &

flear + "caring". Fur very worn. Tester 3602 of ctenorys pervann-server, 19m. 5V.50m. Wormen aldoner.

3603 other

tates 20 m., tenholes not markle, 5 V 35 mg much brigger than anything seen in oformer so far. Obdowen untigreat wasses of tapeworms?

3604 8 11

and tail much worm da in 3602, warmen abdomes Teaha 17 m, accessores 33m, x22m.

3606 7 30les

mobiles Im., romin closed. If bump endryon left hom, int. scrolum by blocks & conspire. Teater ekidril. very large, 5 V. livear, 150 m. long, 6m. mide. Left testes in scrotum but not it.

3607 8

not serotal. SV 110mm, testra 20m. Efterdist huge.

3608 5

230 x 0 x 40. Tester splened, 20mm, retrotable; 5 v rey long + cystalline as about-

3609 2

235 x 0 teatre 22 m, 5 V. 155 x 5 ---

3610 8

231xD vestin 18, 5Vlary1.

3611 8 " 3612 4 " 200 x 0 Jeaks 7 m, 5V 20 x 2 m.

Vegin closed, I this each hom, I compro.

205 x D yellow ch each own, 22 x 3 m each cl.

Swellings 13 m but peobably resorbing. Antifolis

Cray.

3613 4 "

nikelo 5, no mich region ober, 2 orange ch left ording 217 20 and 2 bij fatures left from, that bright 85, foot 22.

	1		
s.			
		•	
	• · · · · · · · · · · · · · · · · · · ·		· ·

1952

Howards Parrison, 12,800 to; 40 km-5. Plans, Defet & Pour 3614 & Phylotia darwin chilenais 222 × 1/4 × 26 × 26 449. There restrains, 5 × 24, Lunge. 582. Rio Hrangue, 13,000ft, 50 lane, Slave, Defet of Pour Feb 7 tester 10m. Feeling & young in case, 219. 3616 3 muscisapieala criera 15km. W. Puno, 13,000ft, Dept of Puno, Per 3617 Hesperinga ducilla 3618 2 copolating poins of better. Comprese with coop content of codornies after the parties of point of codornies after the parties of codornies after the parties of the properties of the parties of t

3623 & Mothera

Tel. 10 stat at km. 50, 13, ... It.; accompanied by another, plus aperdia nearby. 2 recent CL, one brandnew, no large follible. Me brood patel. Some hid to carl. John. E. Rus, 14,300 st. Dept. of Ruro, Peru

3624 Mothesprocke simm. which was larger 210g; wing 160. No brook

3625 8

230 g. mo brook patel. Wing 158. Owny with andy Ting folloles.

(km. 61, 13, 800')

3626 or Humme

53"x5"+134"x6" Leyetat shoulder 28 horn hard, testes 25"

Feb 10, 1952

;			
•			••
			d
A. k			
•			
		1	

389.

339.

P. PEARSON Hvoylanco, 54 km. ENE arguspa, 15,000ft., Defet of arguspa 1952 Feb. 15 milled should anodnet of Testes 20 mm. 3627 & Dussiger sound pieces testes, whing des sommers home. 3 seas st, 2 left. manning tenens; brokenbyos get 261. 218 × 100× 24× 21 400 1093 x 60 x 24x 24 3627 & anhoungs petros 3629 7 Phylloha osilae osilae terms start, no end . Hite not prhingues 343.9 5. Const 3630 9 Bolonge amoenns 167×67×20×14 Mountesmo. 6 februss 19 m CR, 3631 9 abodon bolimenais 158 x 58 x 18 x 14 3632 8 Phyllotin onles value Cate 10, 50 mg loge. 219×96×24±121 559, Tel: 19 Shot 6:30 am in company with 3634. Crop empter more so than 3 634, slightly windled. 3633 5 Mothsperveta largest foll. 5 m , no C.f. seen. mongraf 3634 9 troodpatch. Overdoct large large 170 × 73 × 23 × 19. 3635 8 Neotomys ebrioons 3636 8 Mothophrocta Feb. 2) swolmine brood patch. Testis 17 x10. Plat

Bellyghin edenations, bade not vaccular, letter defeatheringtion. Shimmaked x at the of stermen. 14the Teatie 18-110mm. Crops with mostly clover, 3 small lody? beetles,

3637 8 mothura 36384 "

stat 5:30a.m. One of a pair. O vary meters, longest foll. 2 2 m. Mo ohman broad partch Cropenfaty.

36394 "

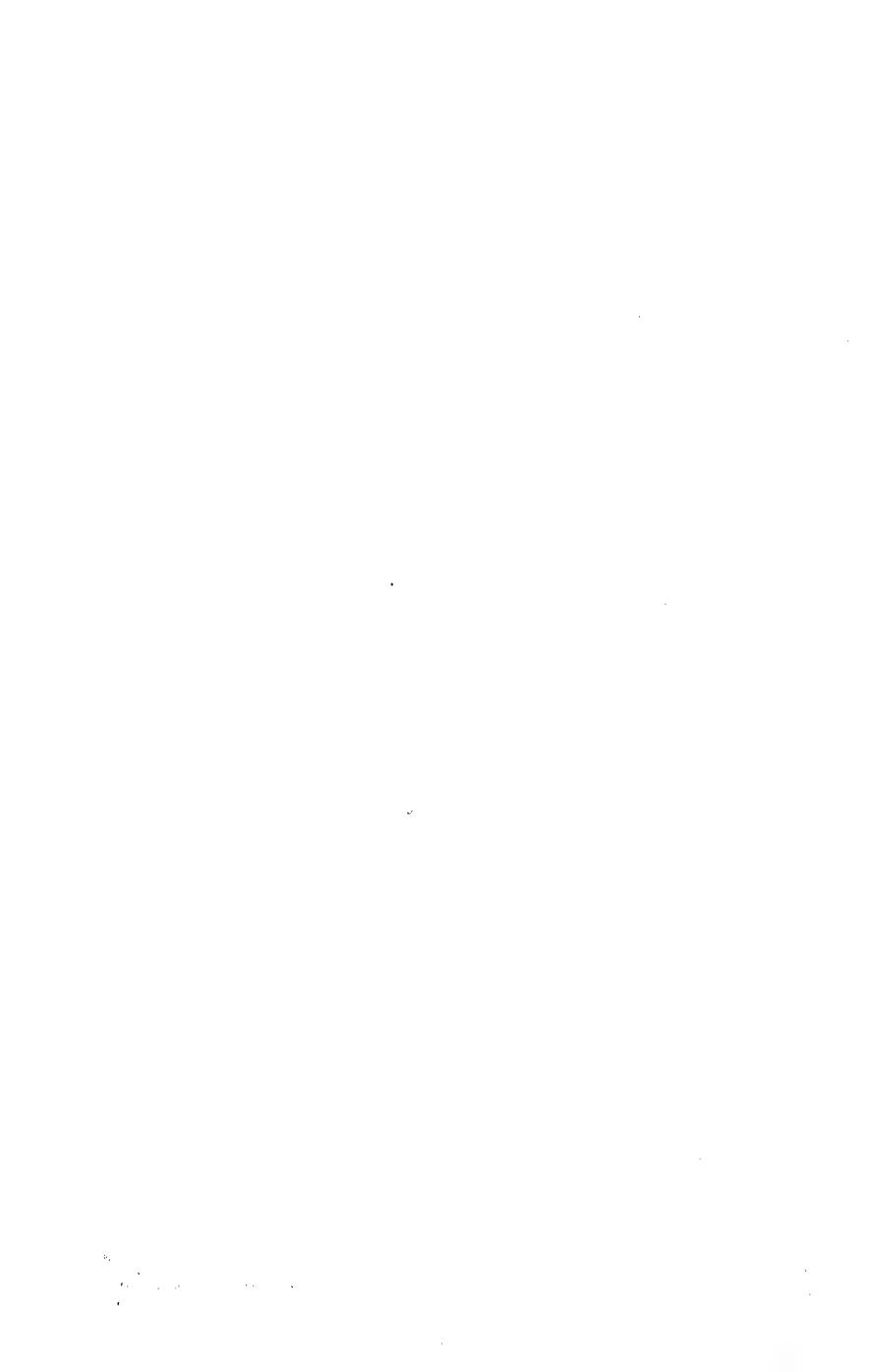
mo brood potch. Induct lying abdomen fully, yolk orang with large regitived forthis (four shit?), coelepsed follice medium 12 m; another stripting smother callefred follice harden largest intent foll: 5 m., yolky. Me ch seen. Brobably about to lay.

3640 7

Alst 7:30 a - Possibly wrinkled broadparch hit wordsburger es 3639.
Orang robust, largest fall, 7 mm, worm wor away.

• . ↑ ~4 in the second se • • . .

> shot near coural 5:30 pm. while gring the 0. 9 lbs. Belle wurdeled - retructe but not 36418 multoproctor. defeaters, vacular or extranger Teatra 17410 Crofffull, clover, small hatter, other leaves Conght by MK 3642 Snohe 35 km. W. Pouro, 24 12100th, Rept of Puro, Pen Feb. 1952 3643 & Logiduni momilla. Fetus 220×105 m, progrented but no makin 36444 my skin 3645 6 Brown beadled young. Testis 10m, 50 gut sund. no shin 3646 3 Vagin closed Mystele large but no mile. The 310 x 145 m, furry. working 3647 + 82 km. W. Kuno, 14:000ft, Defet of Pouro Per chilenais complety AKP testia 11m, 5V stylory 1.
>
> 162×65 × 19×14 355-3648 7 Phyllota darwini chilensis 3649 & abodon boliniensis Under stone man mater 3650 Tool. 3651 8 Nothaprocto wing 196, length of bill 26 with of patters) 13 4".
> book of head 64. Brown of book feather slightly rules. DO + Tester 19x13. Part of feems projecting from Dooca. Shot 9 a.m. standing on bock of 3652 9. Sand brook patch in bourns and closed region in princher to abour series etc. and testing. no obvious brook patch. Crop with green seed blods layer green of family from 1.3 the. locked beck - 70, whithof mended 28, length of fill 30. No clima brood police. If of 9:20 a.m. Cloff entity. If of short after friends for by 3651 (see notes). No obusin. I wood potech, intends little defeather sation and no mountarity farge leathery egg in lower order 45:30. Next largest 20 mm and next 10 mm. The new large collapsed foll, one other smaller but quite consprend. Sound overy + pries of brood fatch. 36529



march 5 3653 & Chrosonys jelskin 3654 8 Nestornys etrissus 3655 + Lyand 3656 Trug look.

ly corol. Testra 7, 5v large, 5 m.
178 × 75 × 25 × 21 = 89.

Testes 9, 5v large, 25 m.
190 × 77 × 23 × 17 552.

Orania large, numerous folkeles up to 2 mm, all
72 m 5 A., we also pole, not yelley No CL.

3657 & northspereta

Month Tore while giving long call above materfall. with heather, seed prode 5 thick white roots. masal 30 mm,

3658 Lyand.

, Mark 9

3659 Ligard 3660 Tool 3661 "

36625 Figard

36638 "

3664 9 "

cought by carolin traft. Belly sulfur, bock spechled, orange and plates. 5-A 77m. Testra ? m Special of the NA 92 m. Oracy and slatery lelles poll yellow. Teatra 11m., special,

0 rong unth white follotes to 3 mm.

36 65 & Lyard 3666 8 "
3667 Mottoforocta

Murch !! Relyantfur, book affectable. S-A 92m. Catia (3×10, Orange pre-and plates Bulls suffer, boch speckled, pre-and plates orange, 5A-76m. Orly one tates, Runs, 8m. One of frain, king 2050, Bill 29m, head 69 6909. 1.6lbs "Defeathered" aren 23×45 some; longe uplay or in or or 30 mm, at least 2 large Ct, no medin willy follicles. Crypt with Range better, some lines & seed prods. Shot at 10:15 or m.

4 Chocomys jelskii 3669 6 Chiocomyo jelskii 3670 4 Lizarl

Gently 4 nt 2 left, 27 m CR. 170 x 70 x 23 x 19 58 Juns testia 8 m, SV 14 m, med lang 163×71×23×21 Belly mother orange, no pre-andoring scales, RT dagente many folliels repte z m., left orangement smother (feworfolds) in mousetrap near waterfol

Frog 3671



82 km W. Pieno, 14000 ft., Dept. og Pieno, Peru

Morek 12

3672 & Muttiproto

Brood pair. 6009. Wany 202, Call 25 miles are this, home raticalities bent not such chinalities bent not such chinalities of the 20x11. Crops with a heetland green seed prohi

Lestra 17, 50 luge, 15m. 210 x 8 3 x 25 > 22 679.

Testis 10, 5V Sarge, 22-19 459

placental seam. 183×58×21×21 489.

Morach 13

3673 & Phyllotis Couclin 3674 8 Mestorys ebricous

3675 4 Phyliotia sublimis March 14

3678 Stripped tood -

3676 Front-eyed frog In poolin sull runing steam in doytune

2 embrt, 1 left; hid not frum.
183176 x 2 3 x 2 2 379 in mor frif 3679 & Phyllatis pictus 161x 69x 212 x20 3690 & Phyllotis pictus 269. 3 nt., 2 lef. 3681 4 Ph. pirtus ? 539. 6 left ; int. ends. 30 - CR.

178×74×23× 19. 3682 & Chrosongs jelskie 619. 3683 about 20 trun trocks of 3+ species - all failed up an wet seep at 11 a.m.

Mond 20

3684 Motosproctor embryo from nest # 4

3685 Trung toods

about 10 used in maine + B+ w/seture

Timopoleo, Sunw. Paro, 13,800ft, Deft-of Priva

3686 & Nothofficenta

3687 9

3688 01 motorge folk but large CL. 4 CL, smoller 12+9,

7619. Shot early afternoon, no broad patch. mailla 30m. 3 longe one, 18, 241, 241, and graded smalls over . mo CL seen.

no district broodsatel . Single large own 27 mg 2 other possibly smaller. Carles of this and paced my 2 bull; black better, cottipullars, grasshoppens, only a few gran frantistic.

ë J: Ry. ç ... • •

March 25

3689 Tool 36919 Jugard

9-A length 87 m. Cafetins 4 days, Belly boll, hard ley . Left owns: I yellow foll . 4 m, next layed Rt. ovorg not found.

57 km. ENE arguspo Avarely 30

Hugherer, 15,500ft; mit the Pouro, Defet of Aregupa, Peru

3692 & Felix process the

39 x164 x 54 x 22" 874 %

3693 & Nothoperata

Incopalca, 13800 ft, Dept. of Peno, Pen afril 1 bought from Ludian 2 soles. Retricter brood patch, not voscular vor eftersively defeathand. 561 gms., bill 24 mm., testes 22 × 13 mm. Crofs with red beards (Ephedra?)

3694

Mothofervita embryo. From nest# at 8:30 ans. Trutched.

3695

Frommest # 7 of 2 p.m. Waggled + garged.

3696 1. Defrocts 3697

Trom nest # 6 at 6 p.m. yesterday.

3698 9

Shot 7 a.m. going Esee - arr", 300 year wof week 6.
6359. matallo 26: Mobwodfasteh Billto unla in month 39
mobwodpatch. One long foll. 26m, ordert long, but no large
CL., 8 another CL.

3699 8 "

shot of next to at midnight. Dring of book patel. 506 2. mon 24m, Bill to > 4 would 37m Brook patch runch defeathers wrinkled. Orif with flock heather, grasshappor, categorillon, a few red Epshedra fruits. Tester 18 × 10 2, Sundtestes + B.P.



shot of rest 6 at 6 p.m. 444 grun. 3700 mothaprocta May 23m hilly > 34m. Brood patch extensively defeathered, see drawing - Crop with feether, seeks, 3 caturallan (anorth), gracoloffer spranting seeds, sull green finite. Both leaths lot. Shot rear next to 6 (60 yds) at 7:15 a.m. 3701 4 593 gma. Bill 40, mahilla 27 m. Mo brood patch. Eggin lower ondust. 7 Ch seen moving, some quite large; no large yolky folbells Flushed 8 a.m. 607 gran. Map. 27m, bill to 3702 angle 37m. Brook patch not defeathered but 20+12. Spronting Jewilers on book, fat. Bumpenlo. 1 left, 4rt. 3703 Phylotis sublines 7 167 × 56 × 20× 23 testis 7 m 118 x 3 3704 Hesperomy ducilla 07 Haverda Pichypichani, 8 km. NN Hvoerdani, 12, 600ft, Dept-of Pur, Pen gan 7,195 3 3705 9 tenoungs Voyin strek alut. supples med., 3 m. mbel mesen in N. ov. and 3 left - Coolomic Comme Comme Com 4589: vagnin open. nipples med. 3 \ m . 0.840. 310 × 78 × 37 3 emp. left for, 38.00 3706 4 420 g. Vogin open, supples longish, pole, 5 m, 3707 9 0.7 h. 310 x 85 x 38, mills expressible. 3 pero. supplies, Faint placentil scare, 2 nt. 241 no ch son meroscopically counts sound! 3708 9 " 1.0th 3 5 x 85 x 39 2 emb- left horn, (nt., 44m CR. Rt. on with 2 CL, left with 1, brinks more. Ovaries sound , left mathersterns. 1.3 de 316 x 80 x 39 et fetuses et left Lour, porte et, cR about 70 m. fully haved, or 122 x 35 x 21 359. Jeft or 2 ch, nome et. 3709 4 " O said, left with pred of within, Embryon 2 88 24 & 1.10ls. Vagina closed, supples 4m, bore around parteriorpain, 63g. 308 × 77 × 37 only a trace of smile. 3710 + " 2 embros each Rom, CR about 68 m on 126x37x22 339.
RT. on with 2 yellow orange CL, left with 2. Both with north-system of embert. Fetoses it 86



1952

O. T Vogin dosed, rupple 32, no mills

much resentent fort, Prepart, lend ut han and I late reportion, 2 late resorptiona left horn Embryo 36 mm cR., a q. Rt. on. 2 cl, left on 2 cl,

1.026s. Vogina open. Mysple 4 m, no mills. 523 g. 297 x 7/x37 Pregrant, 1 late reaufston in it hom, in left, and 1 feture left 44 m CR. Feture a. o. ich it or., 3 in left.

611g. 328 ×80×43. Ceatra 19m. 5V 32×4

april 8 .1 tho, testie 18m SV 35 × 4 \ . Sound test

censure #E 6639. 338 × 86 × 42 0.81hs. Voying open, nipple 4 m., mills. censure 4449. 300 × 75. × 38 Test fartensamelling in eachthour, or possibly resorbetion arter. BI burg

unth 2 CL, left on 2 CL.
0.7 els. vogna closed. mifafels 5 mm, millis
census 3749. 296 x 70 x 38. 20m 3 folocentilacuse
in Lt. Lour, in left. 2 Chrt.on., left: Oronico

pared, left with yours imple 5 m, milk.

0.8 th. Vogna dored. supple 5 m, milk.

A 402 g. 298 x 78 x 37. 3 placental scare left

form, none it. Rt. on noch, med. follow, left on 3

cenare 518g. 313 × 80 × 39. 2 recent fotal sites

At form, none left Rt. on 4 ch, more left

Cenare 0.7 lba Vagnin closed, night 2 mm, no mills

Verne fring their, 42 mm, but my enth. or searches

No CL etterovang. Vagina open. nifsel 5, with mills.

censur #B 4309. 288 × 70 × 37 Left form with a smaller with sites sites of Lors with a smaller smollen sites, probably resorptions (maybe only 1). Rt.on. with ICLI left or with 3 ch.

protontails cenaus 430g. 298×70×38 nombre Pregnant, 2 rt. 1 left: fuellings 15 m., enbygge not sen but perhale OK. 2 CL rt. or., 1 left: Nighter 3 m., nombre Cenaus. #J. 402g. 315 × 79 × 37 them 4 m, no south sear, position mility. Orando mall, ro CL.

- 1.11. Vognagher. Appliedym, no units, bare cenare # H 5559. 311×78×39 around posterior pair-a sign of late pueces? 3 fatures left low, none it, Embryor: 128×37×22 369. Rt. or. Inhtich, left on. 3 white CL, 2 of them higger than the it-on. CL. Fetnass 2 28 14.

3711 a cterango

37124 " 3713 8 "

3714 8 " 3715 4 "

3716 4 "

3717 9"

3718 9"

3719 9 "

3720 4 "

3721 4 "

3722 9 11

3723 4 "

-07				
		,		

Llacienda Pichupichum 8 km NW Hvacullamo

12,600 ft., Dept. 7 Puno

1.3 Ma. teatra 21 mm, semil V. 50 mm. 3724 5 Ctensmys fernances censuate C 6352. 346 × 84 × 42 Corese range for Landry.

O.8 lhs. Vagina clused. cename # D. 4160. 303 x 75 x 38

Mipples 3 mm, mille, 1012 smallen embryor sites
in left hom, none in x. Ma o L. x. on,
4 in left. 3725 F

0.7th. Vogina not open, Angle 2 2 mm, 3726 4 " Cename H? 3329. 285 x 75 x 37 mountles present 2 xt hour CR 17 and 19, one to fath present reserving. Left Lam I resorption swelling Rt. on. 2 ch, left on. 1 ch.

cenaux G. 4959. 325 x 83 x 39

Census G. 4959. 325 x 83 x 39

Census G. 3489. 288 x 76 x 36 millar

Both four results parons, con 4 count scars.

2CL Nt. ov., 2 left + NOTE DUPLICATE #

Carage #K 4100, 303 × 82 × 38 no milh Rt Low 3 elvh. 23m CR, left Low rove.

At. or. 3 pinh CL, left on. 1 pinh CL.

0.8 lbs Vognin closed. I mapple 3 m.,

4 L 4130g. 304 × 78 × 38 mor mills.

At. Lym die reaching enlage, left fam 2 eintege

(42 44 bm CR) garger enl. or & other (society)

resorbing, a strong enlage the (society)

1.1 lle Vogninclosed. mpple 3 to mornills.

cenare #0 580g. 33? ×88×41 2/etuson N. Long. 1 left. Total lingth 118.0013 00. 201 18.00, 1841.

0.7 th. Voyinstuck shut. nifeble 4 to my

cenare # N 338g. 290×74×36 mills.
1 recent placestal over each Dum. 1chrt.on. 2 ch. left. or. 0.8 ets. Vogina scalled shut - mysse 3 m,

comme # P. 410 g. 311 x 78 x 39. milli it or,

2 CL. left. or.

0.8 lbs. Vagina open hiffle 3 - no nick

Census # Q 444q. 2 fetures nt. horn, none left.

132×140×21} fetus - 35 gr.

Rt. or., 2 CL.; left. or. none. Fetuses - 2 St.

1,2 lbs.

579 g. 334 × 447 78 × 41 Testes 16 -

3735 9 " Jun. Stornel with considerall retable water

3727 8 "

3728 9 "

3729 4 "

3730 年11

3731 4"

3732 9 "

3733 \$ "

3734 07 "

379.

P. PEARSON 1952

12, 600 ft., Dept of Primo 3736 & Ctenormys pernamo : cenama #5 523g. 325 x 75 x 42 SV. 34 um. 3737 Tood In guine pig hole.
3738 & cteromys pernamus censua R 5639. 337 × 84 × 40 3739 Injurd an trea paupa. sued. Total 200, 5A 92m. Beller solfer, orange pre-and strook well-filled will regulate walter Cenam V 158 x 44 x 25 49 yms. 0.8 lbs. 402g. Voying closed, V mysel 2 to at NW of cenama home 3/11 x 8 2 x //11 3740 " 3741 & cteromys jur. 37429 " just NW of census line, 310 x 82 × 40 mm miles melho ilt on with 2 pall ch, left with (pinh ch, left with more 3743 & Clenomys Jun. #U 138x41+2235g. stomach, Vrachus Trapped quet ontado cenam area. Even segetationen Sunt of commes area (T). 1.2 Rho. 3743 & Chanong & mipple 3m, no with Fat, 2 Idnals A. Low, 3 left. 2 CL left army, 3 nt. February 3 ft 208 3744 5 Lizard 3A 85 m. Blue around month + throat, felly pall yellow, pre- one sules bright orange. Testis 9 m. orange. Left orang with 5 large nellow folleles 4mm. drain, it on with 4 of them, no pld Ch seen or 3745 9 " ever politiles as hig us i'm tatis 21 m, 5 V 45 m 3746 & cteromys cename HY 621gm. 340x83742
a6 els. Vogira closed 3747 4 " Maple try, im. Home poll, 22m, 10x36 2 foint discolorations each tom. Me comprise ch etterovay, but soved. Left on with most nitions, April 10 at entiture to two bouron. sixty not 3748 Hesternoger garleppi prime onboch. Pregnant 2rt 2 left. 39 g. Census # Z. 177 x 48 x 28

Census # AA 164 x 48 x 24 = 493

Census # BB 143 x 38 x 23 = 379 3749 & chemonys jur. 65g. 3750 4 " " 492,

•			
			-
			•
	¥		

1952 18 bm. 5 w Pigacowa, 14, 100ft, Det of Romo, Pern brood patch wrinkled, being refeathered. Testis 9×5 m. 3752 & Mottopricta 523 gr Bill 26 m. Jonall ones. Eyes hazel witerd of harings of Side of 3753 8 head striped. Testis 3,5 mm. 25 km. 5 W Pagarino, 14,000ft, Defet - 6 Peror Spirit 11 3754 & Cleroup opens 4589. 310 × 88 × 47 SV 28m 1.00. testa 12, 5×30 5099. 308 × 85 × 44, 3755 8 0.5 h. (aboth dehyanted) Vogin closed 3756 P Sm. 3757 2489. 290× 80 × 41 supples tring is Im. Otems 2 m., no sava. mo ch little own. 1.0lb_ take 11mm SV20m. 3757 8 5239, 330×92×452 0.38. Whom smemb(12m) 1740. 7254×74×39 1.00 Fat. Testa 12ml 375T4 clased. 3759 8 W 324×9/×47 2,600 to 8km. NW H vacolain, Dest-offmo Kreinferenn skil! Bock almost odine, white ear partel dread correct with belly. Testia 3 mm 3760 & Chromany 3761 185 x 76. Doll from, larporter cornects.

Shall waters. Tring on. 37 ge Enlerd ting hale when solol. 3762 9 miner Porsal aver book with found is of y clow 3763 8 Lyand be-analocales. Testra que. 2 km. N. Nevoto Living, 15, 300ft; Dept of Taeva, Peru. 439g. 309 x 84 x 42 3764 of ctennys of " gur. 150g. 232×68×38 3767 4

1769 242 × 67 × 37 teste 5 m, 5V trong Vogina closed, mpho 5 ½ m, normith 2629: 278 × T/Y 41 flat not prime One fourt but depints our each hom. Me CL er Juni Votor not open. mpfoliting - Veins thin, me ch 2139 267 × 78 × 40

: .					
					,
		,			<i>b</i>
		,			
				,	
	*				·

> 3769 & Ctenny sp. SA74 mottled orongo yellow, per-and scales orange 37708 Layord Parphade Titue, 14,600ft, 29 km. NE Tarata, Dest of towns, Pen Vogina closed. 8 × 39 Mo emb., no c L 220g. 258 × 68 × 39 Mo emb., no c L Vogina not spen. maple 4 ± m, no under 262g. 270 × 77 × 41 no emb., no c L 3771 & Cterongs of 3772 & Ctenomy opinion 3773 O Blongs berlefischi 158 × 71+ 22+14 20g. Taska 4 m. 148x 54 x 21 x 14 20g. no cint 3774 Jakodor andums uten slender mo c'L Much warman trasmed Vagura clased. 3775 & Ctenorings ofserme Jun. 278 +88 × 42. 2589. Plocental son 3776 & cterromy of openins " 4 3779 Vognarat ofser. Melife 5 mm, no mills.
>
> 262 gran. 286 × 80 x 38 Varin 3 mm, no sear (no ch. Forberd dark, palagering mach his woulden a 3776.
>
> Mills 4 ± m., no mills. Vaginnat ofser. 37789 Eterough opinic 2839ms. 294×89×43. Dark-beaded, dark-tyrled, intermediate: shall + homeum opinics Hid nowledgement no ch. 3779 of ctenomys of jun. 1509. 223 + 68 - 35 Testra 32 m. Meple 7 mi milh. Vagira not ofean 3780 4 " " 2585m. 278×80×39 My clear placental score, mo CL. Considerable Hoymotrasie upple ting. 210g. 263 × 76 × 39 Testes 4m. 37810 " 1929m. 274x 78×40 thats 6 f 5v time.
> Vogin land. supplie ting. There this my sours,
> 218 gran 278×82×39 my cl. 37825 37 53 4 " Caproso, 14, 300ft, 123 hm. 5. Plane, Dept. of Puro Pern belig my SV mond! 3784 d ctenoury opinus 325 gms. 313 × 90 × 42 tampa de Capage 1430ft, 120 km-5-Plane, Det offer 3889. 296×78×42m. Tester 9 m, 3785 & cleromy 2 offinins Shot on some field.



> SKEL. ONLY 3786 5 Rhea 37875 "

63 lbs. skin + shel. Very fat.

Pampa de Titure, 14,600ft, 29 km. NE Tarata, Delet of Town

conght offert 14, Belled offert 13

Belle sulfunt green, per-aval scales large.

5A 80m. and orange brown . Left testes 9, rt. 6 m. 3788 8 Lizard

5 lant Lego Locke, 14, 600ft, Delet of Magragna, attrill?

3789 9 Ctenomy offines 2769. 285×83×40.

On cenamarea near 7. Faint placental serve, no oh

90 37 12 9

91 37840 Vogin not ofen, happel ting. 202 gms. 260× 73× 40 Traffel cenars area 18. Possibly the young one seen at Jame place in January 16. Probably 3 months old. 388 gum. 205×78×42.

Ceneur aien 16. Testas 12 2m, 50 30mm.

92 3785 9

93 3783 4 " 37 858

Vogiment open, supplies ting. Pelage darls, not 1789. 248 = 73 + 37 2 guite adult. Cenara avan letimen > +4. Utorne slender, 1 mm, no scars vo Ch, Jun. 1369. X - 65 × 34 2 Dark juneal pelog.

Jun. 1369. X - 65 × 34 2

Belly white, boch with large liver block blother.

5A 5 lm. Overes 2 m. dram largest foll chart 2 m.

Belly pole yellow, dull grey-ton with lateral volges

5A 91m. small scales elegat on tar furfere coarse

Pre-and scales arange-brown. Stouch with all regetiff

matter (leaves of crimble - leased Mother.) worther (leaves of crimbly-leafed mototricke). Left lesha ilm, N. you. Shot 8:38 a.m.

Pelage black+ grey, juvenile. Hterus Im, pale. 3796 9 Ctenous opinion jur. 109 gm. 218 × 63 x 32_ dogring below bus. 2 placented set of dogring below bus. 2 placentel seare it. how nove in left. 3797 9 262gm, 293×90×41 no el

32989 "

2.7 lbs. Vogua not open. supple 5 m, theke then most 7480 . +82 x 41 fotne level horn 53m CR. I Pale but dratured CL lock hoin. Both fetures 38

3799 8 .. 3800 & Lyout

243 gm - x 84×41. Testia 6 m. 51 tury

5 A 44m. Belly light yellow, flesh with ling book spots.
Testa 1.3 mm. Stoward with crimbly - leaved notetricks + : grass:

•		•		
	,			
				•

1952

5 km. E Lago Suche, 14,600ft., Dept. 7 megnegna

38019 eterouge oferins 304 gm. 309 x 90 x 42 for, noter fluid.

3802 Frank tyrant 3803 & Metriopelia 249. On census area. Nestra 1×3 mm 201. on census area. Nestra 1×3 mm 201. on overy, layest 5 mm, layest fall. Slot in forb of around 5

SKULL ONLY SE opinus

3804 opinus

Jun. 112 gme, 232×72×36 Fore fordly any block from but not ar with as Linine but much browner than opening of similar size. Too shot to show 'Tester 3 to m.

3805 9 through of 290gm 289×87×40 1 sour each born

3806 8" " 234 gm 268 × 78 × 40

3807 4 " 320 gmr 29/687×41 2 seara left Lorn. No CL.

3800 8 Lyand SA 85 m Rt. testis 8 mm, left shot.

Volcon Tutupoca, 16,500ft, Defet of Toera, Peru

3809 & Phyllotis darwini chilensis 210+94×26×23

9810 & Abodon bolinenis 143×55×20½ 12 459

2810 & abodon bolinenis 143×55×20½ 12 40 17 40 19×12

3811 & abodon bolinenis along but testa 5 - , 5 V ting.

2812 & Phyllotis darwini chilensis along but fot. Terris reare.

3812 & Phyllotis darwini chilensis 210+94×26×23

78 gms.

Volcon Tutupoco 15, 800 ft; Deft of Takon, Len 3813 9 Ligard SA 78. legila to bessent to crimble - legila with notationly and after much parts. Left on unt 3 gellow foll. 5 m., st. month 2, 4 = -m.



3834 9

5 km. E. Fogo Loche, 14, 600 pt., Delpt. of Mogragia, Permander of Mayor Lock of Mayor Lock of Mogragia, Permander of Mographic Permander

and reales large, orange-hum. 3814 J Fregund 51 97 - Teft tester on, Nq. Stonsel with regetable Both Center 9m. 3815 8 " 5A 82 PA scales lunge. Book effected yellow + Doch.

Setton Rt. on no over 3 fortiles 1.2 m.

5A 8 (Belly poli. Seff or. 3 yellow over 5 m. + 3 fee. 1.3 m.

other felts up to 1 m. 3816 4 1-3817 4 " 5A7/m. 2 ora inleft ov. 5m , 3 in st. 3818 4 " 5A 75 ovn 4 2 to 5 mar, 2 each ande 3819 9 " 5A 76 and & wom. 3N. 3 left Lared modest ong SA 71-m lare up to 2 mm.

5A 93 m book blad + yellow, let of arefus 3820 7 11 38218 " 3822 5 11 5.4 94 Testes 9 +10. Can't tell which it (tanden)
Back dul brown, belly white, but analysis rounselest
5 A 74. enlarged and orange from. Testra 42 m Saved.
Foots Limine is a Vagin not offen 3823 8 " 159 gms 243 × 36 2 maple ting Tom jur. 3524 9 Clevery sp. 206 gun 257×78×38 Vagradued, night ing. 38259 3826 9 Lyand SA 41 oranesting april 2 2 0.88 les teste 11m, 54.30m. 3827 8 Clenomys 2 (Hervine of mone, constant 24 hrs. 200) 3828 & Lyard 5A 73m. Frein with a few yellow scalle & or fam flack. 3 large yellow over each overy, 6 to 7 mm (layer of white goods (possibly faces or sperm) from clored (Herod mone) Coffeelated 24 hrs ogo. 3829 8 Lyon SA 90 m. Rt who TE, left 7. Sarah new of testia, shirld & landner. Formach with plant making yellow I block offselled on lock, bely orange - yellow beight 3830 8 SA 96m. Left testing my nt. short SA 82 m. Belly pole Book dark (hilled when well). Left testes T, It? Book wither blook, responses rounder in 99 and matrices. 7871 8 7832 5 SA 52 Pelly dishuethe yellow pre-and scale orange, olypthy-everyed. Lock testre 2 m Bock pole &, belly odover bught orange - yellow, chimulate of gray mothing. sout 3833 f 5A 79 m. Pre-ond scalle not enlarged. Left own 3 ova 5 2-6 2m, N. 3
Pellywhite. Seft on. 3 gellen ova, 3 m & 4 m, and 6 mbit
5A 76 m. Shelling allower folk to 2 m; Nt ov. 3 gellen ova 3 to 4 m,
and 6 clear folks. to 2 m.

*		,
•	,	
		\

5 km E Lago Auche, 14,600 ft., Dept. of mogrague

Books withted mustine, belly white with a few orange-people scales. 38354 Lyard SA 46m. Overleating follo < 2 m. Belly pole but district yelle 3836 7 SA 49m. Overles ting, folls < 2 m.
Bells pale with sprinks of gray + peoch realls 3837 4 SA 73 mm Lett on. 3 on 6 mm, 3 clanfolls 2 m; rt. 2 on 644, 4 clan Belly as 3837. Left on. 1 own 4 m, no smaller felleles seen, 3838 7 5A74. At on not bound, absent. Originate fully developed.
Bellypole, book your, per and scaled yellowy abythy enlarged. 3839 8 5A 49, Teater 1.7 m 3840 € SAGOm, Lift testre 8, rtq.m. SA 86 __ Bathtester 7 m. 3841 8 SA 94 - Left tester 7 zm, rt 9 Vognin scally closed.
Simo 248 gms. 266x 74x 40 supply 1 mi.
terms with fourtplocental ream, 2 xt, 1 left. 3842 # 3843 4 Clewings ofsumo 268g. 283 x 78 x 40 2 Placenter som 3744 9 2 nt. Oleft. SA 54m. belly shightly gellow, lock jumenol 3845 & Ligard Coccochara 15,200ft, 50 mi SW Dlave, Dept. 3 Puno SA 57m book reater than tributer meaniforthem. Orones

SA 57m book reater than tributer meaniforthem. Ting.

Belly getter - peach, book personal interesting.

SA 59m Testes 2m, Re-and scalle not discernible.

SA 101 Jeft testis 6, it of m. Storned with beauts. 3846 f Lyard 3847 \$5" 3848 8 " SA 101 Jeft astis 6, it of m. Stornel with leaves. +5KEL opining opining 262 gm. 270 × 78 × 39 take 7m, 5 Junell 3849 8 Ctenoring 1 262 gm. 270 × 78 × 39 take 7m, 5 Junell ... 56m folliles each side about 0.8 m. 3850 & Figar SA 89m 7 min, about 4 clear follielles up to 2 mi, At or. 3 on. 3 one 8 mm. draim; 1 or more clear follielles 2 min stain. 3851 4 " SKELL CHI CA A 3.2 Cha 636 x 238 x 95 x 63 lactating. 3852 & Jagrahm SASSM (card a foot) 3853 9? Tregard

3854 9 Figard

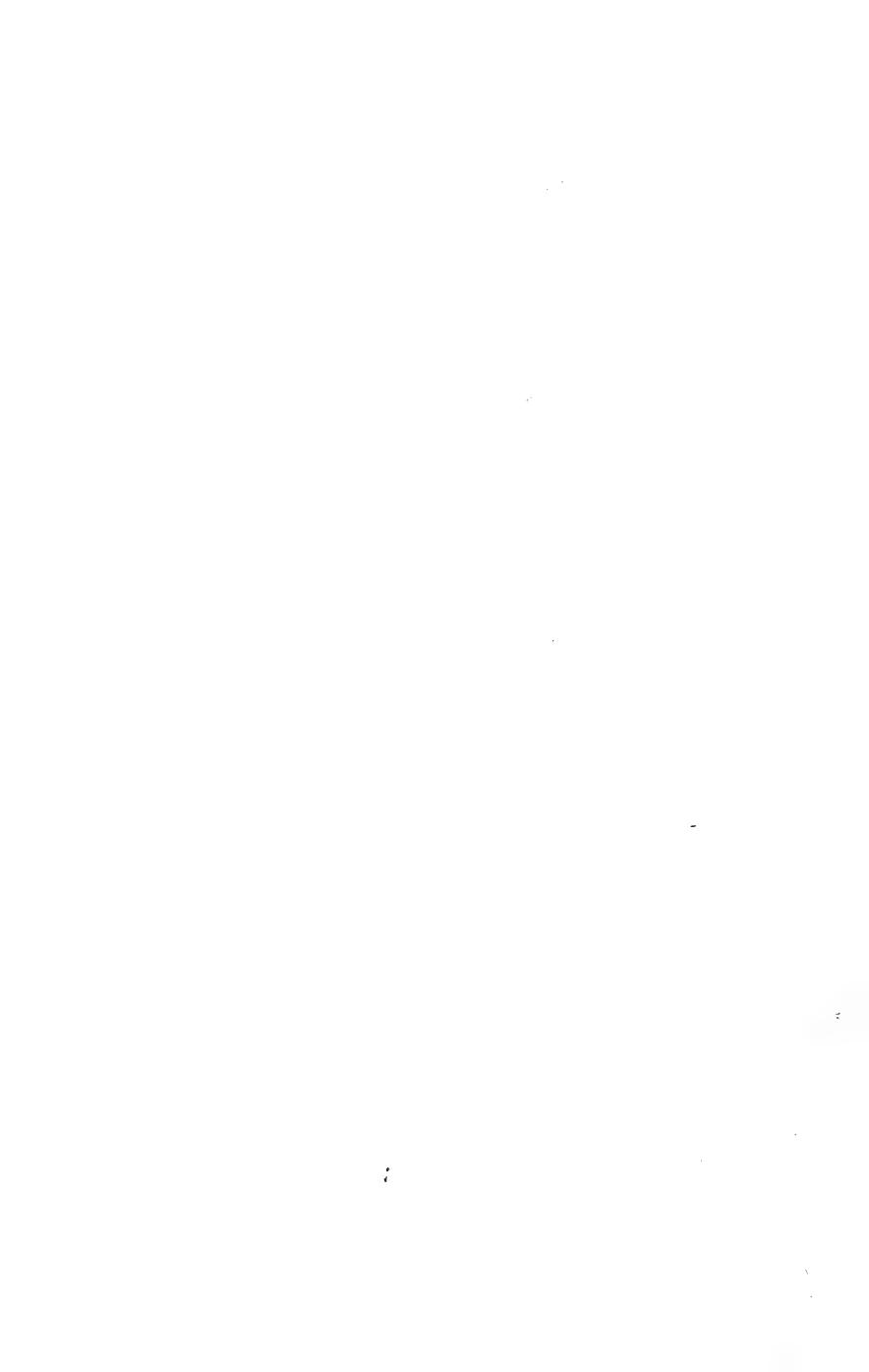
Sty poleyellen + grey, both dukebown with suffrage rusty.

5A 98 m. Ova 12 m., Sand in formalin

Belly fool, boch with 9 fattern. Juff or with 2 ova 3 = m

5A 78 m Act. M. with 4 ovar 4 m., and some smaller

yellow ovar "Sould in forevolus"



Belly pole flue, bock rust, no potter.

54 92 m. Left on. 2 5-m. ora. rt. ou-stot. 3856 4 Lyoul 3857 4 " 5A9/m On some role with 3858+385956. Belly orange with some politice seales on chin; lock dark Belly yellow green, book dark brown and scale laye 3858 5 " 5A88 Ooth leater your Stoward containing laces Belly flore- green lovels pot moty ton beval sales SA82 Sept Centre 6, N. 7m. should which 3859 8 " 3860 Grey-fedel frich 33 gms. Att 1 a.m. in Canyon Min. Pampa Grentlecola, 60 km S. Ilana, 13, 200/t., Dept. 1 Puno april 26 1. ache. 537 gurs. Vogina open, Clevorings persone 304× 74× 39 niffles 4m, no mills. 5 ituses, 4 left 1nt. 121×32

244300.

1.260. Testes 20m, SV40m, non

C23grus. 310× 75× 42 Confeley

Vagin closed, nifefel 5m, mills.

2 2 sept left form, 1 nt.

Pichopichini, 12,600lt. 8 lam. NW Husculloni, Defet of Puro 3861 9 ctenoungs/perramer + SKEL 2 " 3863 7 11 3864 8 ctensungs pervanna 388 gms. 317×88 × 38. Sheleter for Hillety Cenera A Vagia Josed, maple 4 my mills.
375 guns 366 x 74 x 3 V. I clear sear each for 3865 4 " 7866 4 " his thangue in cave at night. 3867 8 Tyrent Kretufichum, 12,600 ft; 8 km. NW Hrosollani census c² 613 g 33/×86×40. 3868 of devougs persons Jun consul 489, 163-42×25 2 37697 " 234 pm. and 2 (a more) no brook taken. Tring ova 3870 & mothern SA 50m Jum. color. ova tring.

SA 87m Jeffor. 40va. 7 = mm, rt. 20va, 7 = m. 3871 & Lyard 3872 4





P. PEARSON 1952 Edge of ceusin over (but outable) 3873 4 Ctenousys pernaum. migglet 4m, melo. Left orang with 2 or mode chy of different ones. At orang we che south with purify form. Left how recently particul (1 sts.) gust outable consumance Testing 18 m 50 large.
5376, 372 +82 × 39 Big 88 Done the then thent 3874 8 1 slam for 29 lestra 2 -3875 8 " 326 x 78 × 41 6000 ms. EVlay co SA85m. Both teater 7m utensforour, no 422 x 132 x 5.7 x 32 each. 3876 8 Lynd 3877 Duringon 10 hm. 5W Huacullani, 12, 900 ft, Defot of Puno, Peru Afani 29

rogin scotling closed. Myselso 2 m. no all

2684. 285-79 × 36 2 Vlerus furround,

parine, oranio unte largefollo. M e ..., sound,

Nt-on-unte jace of ulling

Vagin closed mpple 3 m. manny

2489. 2627687 35 branch Ullium man. 7878 & Cteronys benevder 3879 4 " 2589 264×67×34 Mipple 3 m, no mich. 3880 4 11 25 km. N.W. ayamin, 12, 900ft, Dept-of Prino, Pen Testia 6 m, 5 V song Carye. 13 gm 116 × 39×16. 3881 8 Hegserongs ducilla 3882 Falordon boliniensis 150 × 62 × 20×15 16 gran Usus 5m. 3883 & ackodon boliniani 147×62×20×13 16gm The Cruser, Per May 4 3884 9 Mador bolimensis 126×60×20×14. moent akodon bolimensi 172 x 7.6 x 20 x 14 26%. 264 akodon balinenis 163 x 71 × 19 x 14 andryor.

3878 of Long-tales manne graili on edge of cloudsforest wound.

Thomasomys graili on edge of cloudsforest wound.

undergrass on dry hillside



P. PEARSON 1952

3907 & Phyllotia pictus

10 km. N. Pancartamber, 10,400 ft., Delst. of Engra, Pen user 17 20 Jm. 3891 8 Joy ahouse longicandatus 196×120×26×16. 19 gm. 3892 & Orygomyo minutus avullus 165 × 107 × 23 × 16. 119. 3 893 & Melanomos? akodon surdus? Pregnant, fetur about 15 "long. 219. ht. at should 3894 4 Odveoilens 4934 × 51/2 × 131/2 × 5 28 in. May 8 [83x [24] × 20× 13 3895 Oryzomys minutus avrillus 109. 3897 8 Orygonya longicandatus 228×124×29×15 3896 & akodon surdus? 24 Jm. 269 10km. 55th abovedy, 6250, Deft. of aprinon, Rem 3898 8 Thesperomys sp. 2 155×71×19×17 18gm 3899 & Hesperomp sp. 2 136×70×20×16 89 167×107×22×15 7gm 3900 & Orygonys longicardates 24 km. 5 Chalhuanco, 11,700 st. of apurino, Pen testia 11 mm. 3901 of abodon? 178x 74x 20x 15 31 gur Lactating. 3902 & akoden balinenses 219. 150×65 ×19×13 testes com 3903 & otrodon bolimensis 177277-19 < 14 26gm Doft of aparino Pen 40 km. 50 Chaldwarea, 14,500 ft. 4 ent. 3 Whint 220 x 90 x 26 x 23 66 gran 1/m 198 x 85 x 26 2 + 22 2 6/gran. 1/m one of the, alst 6: 30 a.m. cryp engling. 24 lbs. 3904 & Phyllotia pitus 3905 & ""
3906 & Triampter andert lings, and longs, unwerous large attitute follielle. 2 cmh. left site \$7 gmz.

216×88×25×22



-

•

P. PEARSON

95 mm 5A. testie ? m. 5 ovo in soch harn, 93 mm 5A devoluping embryon. Fared all.

Carylt by CK tosten 3 m.

149 × 51 × 21 × 22 3908 Flyard 3909 + " 149×51×21×22 26gm 3910 Phyllotis arblinis Coccobera (cought of Concolors, used for temp. strokes, billed Urays) SA (01 3911 8 Figure 3912 8 5A 95~~ 3913 6 " SA 49 m Boch Potter. Logo Luche (02 3911)
3914 8 Lyand
3915 0 5A 91~ 5A 66~ 3915 9 5A 51~ 3916 8 3917 3 53m 40km. 5h Cholhranea, 14,600ft; Deft of africing, May 13. in it orderet, 2 in left falling 14 un long, entryor CR 11m; 10 un. faft away 6 Ch 1.2 m in driver, orange and clear follows up to 1 m 39189 Lyand 3919 ? SA 43 m Back patterned 3920 35 km. ENE Proguio, 14,600ft; Dept. of agreerly, Peru 166 x 77 x 23x 21 3 cmb. (2xt, 164t) 3921 & Chrosonys jelski 223×110×25×24 3922 & Phyllots dorum chilenais 56 gum. no brood patch. One of the arougenth 3923 & Tranolis large athete folloles. 3924 3 Lyand SA 49m. 7925 9 51.

•

P. PEARSON

15 km. NE Pranio, 13,500ft, Defet of arounds, Pen 39268 Lyard 5A 75m Testro 6 m. Pre-ambades large. tristra ?-3927 8 Chronings jelskii 182 × 73 × 24 × 17 41 grans trotic 12,5V large. 79288 Phylotie darin chilensis 272 × 138 ~ 28 = × 26 72 Jus tota 3 m 3929 8 alaston bolimenois 149×67×20×18 15 hos Pregnant 1 nt 3 left. 3930 & Phylotia publimia 167×57×23×24 49 gm discarded 5 juv. a. boliviersis wt. 8 gm. = 39319 Phylletis darmini. (not sound) 240 x128 +25 +25 3932 Mothsproeter of 424 gur ova dost = = m. 9 531 gm steetisflolly folliles about 6 my larysh 3 569 teste 20m a lim \$ 472 8 406 " 13mm 8 407 " 12mm 7 458 follilles ofto 2 m, owdered smallish \$ 563 big ondert, orefolded 21 mg anothers Collepsed one probably abot, no et sen. 3 (talled by bank) Testes 18 m. 3933 & Frand 5A52m Belly orange grothen. Distint follille I mis 3934 New kind high 18 km. NW Brymo, 11,501t; Defst-of ayourko, Pen tota que, 50 large 3935 & Phylitis Hesperomys 162×78× 20×17 21 grun total 7, 5 V lage. 59×79× 20× 17 156× 69× 20× 13 7937 & apodon bolimensis 10mi. W. Conete, 100ft, Defot of Line Cen 3938 q Phytotio amicus montaines [123443] x20x24 17gm

		,
		·
-		

JOURNAL

•			
		·	
			,
			•

Lima Perm Went with faring by line to now to rook for but turnela (about & odules east of Ling). On the barren slope southeast of the bus stop found 3 wee mile turnels in rock. Drofepungs and but swell in all but no bota. The drofspings were quite torry, hourgereour, posselly bampers. Mov. 19 Went back to Mana to boalam some tunnels south west of the bus stop (east of the big seen dairy farm). One good horizontal turnel and 3 vertical tumble. Sood drofpfpings around entrances of all but no way getting into the vertical ones. I think one of the vertical over was the ove from which Lardner, Herting and Logot bots in 1939, but the trushers are now gone and no way of getting into them without rope ladder.

Mon. 23 Left at 7 a.m. on train for the mountains. all up hill offer chosics and grown transition to attificate conditions. Most of volly and slopes beauty utilized. In several places were all turaces, not used, and right leadether authorited fields on steep slopes Don't know why the at tenace are not nithinged. The high country is swell less interesting than southern hern. Sow no ducks, gets of some links, carriages, alfocus of familyes, only a few llares and sleep. The riner are polluted by mining activities. Hills around are polluted by mining activities. Hills around are prople on the train at tachocayo upon advice of people on the train because here there were suffered to be trimmous.

sheefs t bog ravel that would have fort us up if their granters were not occupied by some misting wood buyers or groders. Hills roundahant did not seem to have evoryh burch grave to be good turners country anyhour. Upor advice of the the rank varioger, Mur wright, tools the rept train to compaison and went to Huaychelo - which turner out to be a hing and swanking german rum hotel. It is the only worker hotel brown in Pern, Others are in cities. armied grat before darls. Sprintered rain, thursen and lightning.

Temp. 50 of 7a.m. Myst clear, Countrysode rather bearing cultivated plus grows of everly tus. East of the botteris a long ridge, almost bore of regetation, beauty golleyed, some of the guldes 15 feet days, most of the surface is bare rock, stones, gravel, weathering shale. But on top are some plowed fields, some with young guinoa or severt pototoes, others with no plants showing. From the top a good wew of the bilbaides and the broad valley running to H vancager is offorded. This is the season of planing and planting (open or wattock) and about ball of the warble countries exactly of the restrict sparse grass, or bore eroding slopes. Typical bodlands are forming in manyplaces. The country is terribly overused. Especially bad in some of the country between thehacago and conception. Very steep and very stoney slopes are being collisated for very small yields, Even in the valley

					•
			•		
•					
		·			
	•			. ,	

1951

some of the flat fields are are so stony that swely less than half the surface is soil. West of the stones wigh less than 10 pounds. In some fields the stones have been cleared to form stone ferres. One small field was surrounded by a stone ferre about 5 feet high and 5 ft. thick. Frequently the stones are full into heaps in the fields.

Sonot he cultivated fields on the ridge, of the hotel were being fertilized with followinged commander, - four or 5 bushels to a small field ('z ocre!), carried up to the hills or burrown.

Nov. 25 Walk with lack on burro. Crope: grain, guno, Botatole, sweet potatoes, 2 kiebo articholes, corn, planted encalyptus.
Some encolyptus with 1 st spronts 12" chain, wild cherry.

Mov. 26 Left on train for Lina ? a. en,

Concepcion a Drain gaes up flat valley chant 2 +

miles broad between enoded bills. Frethe recently

flowed, some with new grain spronts.

Some with the covering of snoot stones, some

with stones yotherd nito heaps, others with

few stones. a map of the upper limit of Everly petins

along the eastern slopes should promb a useful isotherm

based upon frast. Joingo is 11,000ft.

Jonijo (11,000) - Orongo - Evat point as obone with most abundant

planto being Encolyptus + againe? (contingplant?). Then op

the congon of the his " slopes badl evalle,

scattered should. Many pramples of overtised land.

Extremely steep slopes being cultivated despute the fort



that they are bolf stones. No terracing. Many fields only 10 yards sprave; some outrated on the little plateaux letures 20-ft-duperoxion gullegs. Some fielde at least slope 45°, u few you would sever are at the arthur angle of the soil and stopes. No contour planing, almost all vertical furrans, Emolyfator stoll at Floellapampa (ft.) but not at Vachacayo (pt.). Bunch grass affects at about the place the Everlyptus dragspear , Last part, before the Orongo desolation, is ofen country with burch grass, short green gran, and rock outerfor Louenhat bles Parimoni but lese "lush", grasse more sparse Oroya - Ticlio (15,600) x Gross meresses m alundance up to about 14, 500; then higher parts with bushes of Testina orthopoly as at counters Techio - Dunches of Feature disappear about at Casapalca (ft.). Climst mondrately begins "rabbut brash" and baccaria scattered with iche. Energy fetin abone Chilo (12,200ft),

Frially got bus them advance and been appleter this morning. Left Lina about 2 pm, and drove to north of Pieco spent night in sondy desert Dec 2 (Sunday) Drove for a while, then stopped for several hours Camped for night, in stony desert next to a torque of

very seathered dead-looking bushes surounded any utter desert.

Hat time to put only 12 museum specials before dark.

		•		
		·	3	
·		,		·
	·			
				,

Dec. 4 Month driving over much brunky road and some photography of the Lovia and bareaver. Slept on long upgrade approaching areguipa.

Dec 5 Most of day in arguipso, then back up the bills to the 5w. Camped waar the vest of these hills at 8 500 ft.

Stony sardyhills unto scottled dried shrubs and tall eature (pipes 2"drain) Had just parked bus when I spied herd of gravacoes and 300 yards away. Collected one with Hornet. I knimedit, then set 35 Museum speich down a sandy wash and along a stone walk (remains of mining activities). and set 25. Swares filet for suffer Dec 6 Spenies mee (2 Physlotis in my line and 2 in

Skinned mice (2 Phyllotia in my line and 2 in anita') and finished graves. Both my mice along a stone wall, work and graveler shakes, and faint a clong stone wall, other under pipe costers. Then drove to about 20 km. w of Mogneyera. Some mice barcases on the Millerdo rood, and several wice stretches of lower vegetation. More of the ruiter arange rootless below. Munerous files + beetles among the lower flower meadows the arange below is found on the inland fring of the lower. The wild "principle" frequently seen out on the gravelly desert is also almost rootless, here weatherled. It can be dislodged unth a ruiting.

Caroped sin a dry wash about 20 km. w of Magregora. Scattered showls in the wash and a few feathery-leafed trees.

	•
	·
**************************************	1

0 8 12 1

Hod timeto set about 20 ruseum spends before dark. The surprising thing shout to four vegetation is how alle utrajed it is: practically we of vaging. Brusses play

a small part in its composition No mice. a fot dropping contained no fur, only seeds. Temp. at surinal 60° alt. 4000's Refusled at Mogregora then set and for Volean Tutupoca, Pasto Grande + Magoerny. a little grass oppears above mogregor at about 6 300ft, then contris and semb become wereasingly abundant. Camped about 1:30 at 11, 200 ft, along the Rio Torata (dry quest for a few puddler) where Brecheris, cacture, and other

semb mere fairly abundant. Let out about 65 museum specials on a rockapslope of grass, semb, and coetus.

Try tooks swarming around a couple of seeks near the

alandored village in wheh me are comped. Some mines nearly with powder-blue and rolinisty blue thillings.

Several sets of abandoned terraces on the way up the

hell from Torata . Wit at 3:15 of our new camp temps

mas 66, humberty 40%.

focal forma seen consists of ting toods, around a seep, large todpoles in a pool in the guebrada, ground dones, a stalling black hurminghird, and viscochas (2 seen) focklighting at ? to some lumel. Found 2 frage under bushes 100 feet from water. 3 hummers in tunnel

Dec 8 Tempot 5 am 36: at 3:15 p.m., sunny & minky 60° and 46 %. My traps held , Balongs berlefalin (slipped no must have been conget yesterson afternoon) and 3 Phylloties, probably of 2 known (godging by boot sigg.

 humingbirds but night. This one held some enall but droppings, huminghird droppings, and woold huminghird vest.

Some of the desper pools in the stream bed bane a surprising number of to Mpoler. One pool 8 "drep and about 5 feet drawster had over 100 todpoles 2 to 3 "long. Must have neighed a pound,

Priked up my alt traphic and put down 40 men one.

Though large bushes + rocks beginning beginning at bottom.

of hummighrid turnel and ending in rather open soge.

Got upot modright to want the 2 humgbird tunels.

cought 3 humers (I topic) and one escaped, also in the

ground typint strated spine toil (see humgbird species areait)

termel 1 gray for and 1 over took; (see humgbird species areait)

air temp was 5°c at 12:36 a.m., at 5:30 a.m. 38.

Trapabeld 2 Chonge mong tall bushest rocker, and
5 Phyllotin of 2 sp. The 2 hig-footed dark-tailed ones
were under a large green-thour bush, the others under contine
or more open souge. There and 3 Bolomy 2, 1 Phyllotia
(small footed pole), 2 toescos (cought in mouse traps), 1
ash-breastet frich, and 14 humber from turnel last rute.
Laft about 2:30 and ground up the hill. Quite a
buit of Polylepia between 12 + 13,500 ft, then acres of
boulder fills and uprotes. The first yavetarnos 12,500 ft.
tools a wrong turn to the south, and hyposphyllum 13,500
went over a paints of Fasture at about 14,000, then
dropped down into the neft volley south of Rio Torata
upstream a few miles from Tolog. Mong switchbaches

Dec 9



1951

but rood not bod. Evold up at a prosperting hotels of american huelting &, complete unto electronity ates Had coffee, the fee growing then retrack our way up to hill and comped among Features at 13, 700.

Dec 10 anita county 2 Phyllotia in feer trafe. I then ind, then book to the Mogreyon Interprese rood. Onte a few quemen trees in the 13-14,000 fost your. Then some way extension stone felle with much garrete - more yestettation of bare seen elsewhere. at 14,400 ft. Mice station of Features outlookable appeared, and Cteromy doggings when the soil was saidy or gravelly. Some one two of Timesota anter short one through to leg. I thouse on a considerable slope but did not fly. It thousand around on the growth and albumed moto catal it.

on the edge of Lago - Ruche about 20'clack. Met by Juan longer, the forewar & want dring with him to he along to road to see if Bus could wake a step grade on the way to Pasto berande. Before we got to the grade, however, he decided we could not wake it. Had supper with him and can feed in the without & Flamingola, ducky and grant cools (and their floating rests) on the lake. Surrounding helle Festives arthophyla. The suffer diggings are up on the slopes of twenty and about it has by truck at 17,000ft.

Solvy past-durier diseasain of 300 by, boltes, and every poster and every post-durier diseasain of 300 by, boltes, and

.

.

April 1

quemen tree (Polylepis), and come to think fit weither hand? He says a mature Polylepis or yaretto is probably over 100 yrs old. Cutting Polylepis is probabled. It makes existent charcoal. Calls Tenomore "certenejo" forgs there are "conejos" on the pampa Hamatine.

Forgotton

Dec. 11 (tre.) Port the high altitude yeta in the carbustion and advanced the sport. Big improvement. Left after breakfast for Pasto Grandlete, but stoffped of the tree desert beyond Pampa Hvatire (15,000ft) for much photographing of the desert. Shot 4 Ctenouge, all openine. Drove on at lunch tame.

Mode the steep ascent OK where the road crosses the river, then drove across the Festiva hills to Logo Viscoslo.

Many views and booked good forkheas but didn't see any. Evermone herds of alfances around labe Viscoslo and in the valley to the east. O ser 100 in many herds, well over 1000 alfances in this "fertile" valley. Some graying out in "bore" desert.

comped at 15,000ft where rocky hill weets viligeen seep at edge of fertile valley - Vicinos, alpoeios, and anhours bolimensis, and Visiochas abundant auto part out trafes.

Traps bol 2 Chrosomys and 3 Phyllips. May bolis of

Dec 12

Traps bod 2 Chrosomys and 3 Phythetis. Wall photor of andinormy belimenaris and shot another duch. Then drawe past Jogo Joriscato (many planingon), Pastorbrande, to Caccochara turnoff. Many aspecas; some Lerks of 500. Much tuco actuaty. The road bocks to Caccochara una about same first backing winners and rhear.



Day was avering until approaching Caecachara, then ran into a net bail (3 p.m.). Howe again b Temp. in tota afternoon between 35 + 40 mith light sprinkle-bails Frage collering in evening, and saw 2-with tappoles.

went up to mind turnel in evening to looke for birds both vone there. Heard no triumans, only seed suppo and the gull bless cry of thetatain a black + white planer playing reportreams in the dark.

Dec 13 Minima 27.° at 8:30 a. m at was 45; cloudy, very fount driggle, humbity 78%. Probable with frogs 52.° cloudy all day with driggle, boil, rain, and snow, Lover quite steady from 3:30 to 8:30, Went for walk for 2 her after breakfast, mostly 5w. Ground from recent rain was good for tracking but sow very few minima tracks, no townson or rhea tracks. Sow only one hard of views. Drug for believating anhicongs sublimes, but found wore. In afternoon set steel & snap trafe in congan mino & Cupolo Minima before to get aboverno. On the steeps walls of the congan wins were several accumulations of bird drappings - probably resulting from might rosating. Socked for turnour sects on the gravelly - story vides done Canyon Minima but found more.

From singing ofter dark, air & c. Ore proble with 3410 was 4°, another with 3411 was 6: at 8:30 went up to Compon Mind to look for roosting brids. a small finish-sized bird except from a turned on the way. In the campon shot one tyrunt 3412 rousting on one of the probestols of droppings

			•
		•	
	• •	,	

He was warms to the touch, another bird, booked typant size,
flew off. It was arony and unider
at the time, but the birds were sheltered
from both. Temp-at were 1°c, up whome
in the mind &!

Dec 14

Minimum 30° (yesterday's Maximum about 50°). Fot tracks around bur and up near Congon Muse. Shy overeast although a few blue patches and Tutupocam sun for a short have & One Phylloto in my trafes a courte ment for walk who bear and headed turninger. I am grute a few views. I botrographed mocashar at shall abole: a young one nursing. Drone both to crossroods for buch, then down the Ro Sonto Roso. Must striking is the regulational change On the Tutuposa - Santa Rosa road as soon as you cross the durde into the Theore drawings. The festives bronch grass as memediately refelered by when brush grass and sogero Compad at 14,400 at a deserted mining commenty andst vik iche hills along the ruer. Lumg when we armed (2 pm) but a few months daller a strong mod from south followed by fairly beary rain't snow until suffer. Let 50 traps among rehnt rocks, tourd frog wolking 25 ft. from sheam in snowslowing are temp 33. Heard Twomotos colling close to camp but couldn't locate them Soon stopped ofter supper, thenfull moon.

Dec 15 might Mostly clear. Minimum 27. Morring survey, pleasant out of wind but cold in www.ind. at 9 a.m. survey, temp. in store 42, hund 68% and hour later temp. 44, hund 68.
my traps had 5 Phyllotis, 1 Chrocomys, 1 auliaways sullimis.

			•
		•	
			•
			•
			•

Heard Tenanothe crowing, som plikers. Left about 11 with truck from Tritupoen. Som Tinamotis among rich at 14,300 but missed. arrived South Rosso at noon, then across some rather wice soge desert to the Vally of the Winds between Southborn + Mayoring (Rio South Rosso, 13,300ft)

Port ant 60 museum affectors among tola (Jefindelhyllum),

Feature, and rocke, - all rather sounds. The re-appearance
of what looks like Feature orthophylla here is interesting.
also set 8 applier trafes for treas among the source of feature
on the flats along the riner. One of these was afring + eighty
lefore dorch

Dec. 16 (Lurday) In way traps only one abodon and mus? along a sowing dry wach. and 1 Bolorays, 1 Eligendantra, and 1 Anheorys? also 1 Cteroungs officers by a hard foot. Late in the morning careful another cteroungs by the hird foot.

Might Ilar, minima 20°. at 5:30 a.m. - 25°; 6:45-38°, 42%;

8:00-42°, 2870; 9:00-48°, 2870; 11:30-15°, 2870; 2/2m

16, 22 %. Hot in sun, coolin shade, even cold,

Left about 2 pm and drove to Pampa Queullacote where we shot 4 guines pigs and made court, Heard one town bubble but have seen work. Mis clear sunset on the icher hills.

Dec 17 Temp of annue -4°C. Clear all day exist few clouds in late afternoon. Photosof + hunted treas + guines sings in marring Than drove a few routes to the gorge of the sing It warped out competalong therines. Shrived Twees and fished (3 9-rich and 1 12-inch). The campon were leastful than ever at servert.

		•	
*			
			•

the thafterwoon 5 undere wooded upstream unth long-hardled fisherets typing to net fish. They seemed to herd the fish upstream, then try to close in on them in deppole. Frequently one mon up on a rock anerbooking to pool directing aperations.

Dec 18 Temp. at surine 27. Might clear, frosty, rice on probles. at 10 a. un temp. 50°. Languires pig near our compainte conyon. Left at 10 for Clane (11:45) and Runo (2:30). Shopping etc. in Puno. No mail. Then up outo platear toward aregupa about 15 km. Comped in ich pangea with metamorphic rock outeroffings. Port out about 25 museumspecials yerst at drick. Day clear and among unth gargeone clouds near lates. Evening clear + mindy, 13, 300ft.

Temp 25° Drove to about 105 km. post, then stopped for day

because anto + lado were all feeling sich. Took photos of gulls and crots and heir island nests at Joguna Umayo. Sull nests whiteved by drofffery, squarely when stone is lased on them. Port out at 3:30 about 55 unaem specials in rich - rock - thorn (Manyymenthus stretus). Not much mouse sign. One herd of viction rather and near careft, Ray dear but clouds gathered overlead in late afternoon, thus certing of the clouds but clear all around edges Songeous thinkerhed in worth at suset. Then clear overless.

after surdown with a few clouds to the east De 20 Temp. at provise 24°, at 7 a.m. 32°, Butterflies mer flying at 6:30 a.m. is the sum. Traps not toucked! took bhoto of cluster of huts in sally at survives. a very earthy + perceful setting, White toking the photo or

		,		
			,	
			·	
				`

1951

young girl come out of the courterant to fetch water at the stream, a mon came out shelp not the stone coural behind the house (some shelp and blewar were alresty outside but staying close) and intermittent plumes of survive from the chumen gune eindered that wa was putting told on the beauty and fine. A rooster crowed, and a small bird perched in the sum on the thatch roof ridge.

Took off about 7:30 for in search of Kofords. a few kin before their camp (135 z km) me came your a Ford truck cuparged by the road. The driver had kit the Gridge aboutment unth his book wheel so that the enhale rear assembly slopped short while the body slid forward 2002 30 feet and capanged. The 15 as no passengere who had been riding on top as well as the calipassengers mere setting around beruldered, some warling. Very little blood in endered, but probably some thaten bonds. We took some of the warst rejud, the owner, and a Grardia Criel boch to timespalar, then returned to look for Kofords. at km. 1352 me found a leaf of duck + herallets peuters, a faile of tru come, a for unthout shalls, and several discarded plastic bakes pants. No other true. Continued an anacht Consider arigings Comped at Fogura dalwar, 14,100, and put out

Be 21 Temp. at suring 24. One muse in trope, a Hisperomys. Drowl down to arguipa, arriving whout 11 a.m. Much good to a etern

			•
		,	
			\
			,

PEARSON 1951

The way down, including slopes of what looks like dwarf

Townstor. They bod sent letter to P.O. weeks ago and carl bod cheeled and found it there on one of his minita. also they bod left note for us at stone pile where we had booked and where we left our note, but someone must have taken it. Sot has greased after level and shopped, then back towards the halle at 6. Stopped great before dark at end of paned road, 8 400ft. Vegetation rather similar to that west of arguipa at 7 500 ft. where we traffers before— dried desert weds, according to the place in a dry wash where some bogs champe of a bring greas. How there to get out about 25 trops lipse dont. Short gockelythen after surface some mothery but a Phyllotia is one of any traffer some mothery but a Phyllotia is one of any traffer some mothery but a Phyllotia is one of any traffer some mothery but

Jec. 22 6 Phyllotia in my live and 3 in anto's. Prove of the hill to former folias and shimed. Then set out about 50 museum specials at the foltown of a long moscilla rock ship about 700ft higher than comp and waybe i mile south; rocky the book and of Villa frehm: Sand, rocky youtto, norme scattered to a and grass. Mossy trocky, but not much other sign. Shot one missels. Heard Timowatis.

D4.23

Only I mouse, alodon ardinar. Tempet survive 36. Myorning clouded up early, some hail before 11 a.m. (There hadbeen some dierray wift also). Steady snow by 2 o'clock when we left for Kaford's

.

•

.

compat 135 2 km, they to follow towarrow. Snowed most of the way, aren't just before dark, still snowing, about 3 inches on ground. Short 2 Medium triamons at 101km, 13,700ft, and some for as me approached 135 2 km. also level of 17 minutes alers. Still snowing at 8, about 4 wieles on ground and shock on probables. My frogs chiefping or sam kylod comb at land 1352 and glosgomber, 15,000tt.

Temp at summe 32°, about 4 to 5 snow. Temp. at noon,

Dec 24

overact, 522 Went for long walk about 8 ichoch looking for trocks and trying to call for with gone call. Law no twomon or need surpo trocks, only 1 set of viewing trocks. Occasional numbe trocks near rolly places. In fact, almost the only sogne of life where near big rocked the or cliffs where there was least snow. Most entered was truthe (and sight) of delay brids around the rocks. Jaw 1 moscocho, plus coots, gulle, and drocks on the ting shallow joind south of camp. Coots followed by half- grown agoing.

In afternoon went photographing view as with carl. Weather worthy overcast all day but very bright. at 8 a.m. with around on ground but overcast my exposure meter but the top, 1600. but considerable sunburn on my 2 - bour walk in the sour.

Die 25 Started aroung organ in the evening last night. 2-3 miles this morning, overest with some flue sky east + west, temps at survive 29°, at woon 52°. Whout 7 am board trianster cerd wort hunting but dan't get any. Then viewed hunting unth Carl. Many photos, plus wither trianson hunting for the Money photos, plus wither trianson hunt.

The On way look to composer 4° cordore feeding or a dead (shot?) viewer. Went book to Camps for the Horset

and lunch. From all gove by / pm. Then bock to hunt

	• • ",	·,		
			•	
				,
·				

the condors. Mussed with the Hornet and Carl with. 12 ga and no. 4 s couldn't bring down any extra atthough surely but them. Photos of capture Churchillula and Rh. bolemensis in afternoon, Every partly clear. No soon all day Deeze Tenfo 34° in a m. Looked for triamon but found nome. Then drove with could and to the weed rocks on the livete rood feveral bird vesta in arm-sige halls. The hummer vest care saw a-building (and shot at point) was more fred. It was 7 It above ground, stock on rock moder on overhang. Took photos of young corocara in next and being fed. Hard + snow in afternoon but not in evening.

Thomas hunt after dawn, but no signs. Then off to ploto vienias with coal + Mary, but only a fem patcher of sun and not much cooperation from the vicuian, at 2 p.m. broked for byards + frogs under stonennear comp; found several a cold und from west come of about 2, followed by leavy aroun about 2:30 to 5, total about 2 = meles. Sunset muld, no wind.

Deze Morning sunny and wee for a few tours, then scattered clouds. By buch time mostly dovdy unth occasional the pateter. The clouds form overled and chum around in such fachin that photography is quete unpredictable 2 months ahead.

Long + profetters teromotra hunt before brookfast, then photography with Earl up at the little lakes north of the roodand on the pumpor west of courts. Some

Pocked up and left about 3:30 pm. On the way out noticed but to I of the led of 6 verious whose territory crossed the road east of comp was linguing looky on front left beg. Mevertheters he was defending against a rowing based of To. Compled arround tola on the hill east of Tireopalar. Motived that the road was much wetter for some stateler than other, precipitation must be quite local. Slopes + mally coming down wito Tireopaler and up the other side, are beauty tola (Sepadophyllum gradramychel). Set about 40 museum specials among tola + burch grass mixture and along a dry wall along the road at 5:30. Rowned prink hard about 7 pm. and also rain and snow later in evening

Dec 29 Timopoleo, 13, 900 pt, 75 km. W. of Pouro, Mothing in my traje, about 1/3 opening by rain. Temp. at 6 36°, mostly cloudy, about 2 web of some on grounds sam 2 models-anged twansvery, but both variabled before guns could be brought to lear. Campal early among with + stone walle 15 km. W. of Pouro, 13,000 pt. Part and 40 trajes + 2 steel trajes for trismon, but beauty rain and some bail in evening parbably spring way, Rain week of wight.

Temp of 7 38°. In my traps I Hespersongs, 1 Bolongs and and 1 Phollotia. Mo sign of the 4 tinamon. Photos of trans on nest etc., then off to Pour to discover that I was Sunday and that 2 registered letters could not

· · · · · · · · · · · · · · · · · · ·	
	V

P. PEARSON 1951-1952

> be obtained until torrorrow and larl's tellers could not be registed until tourson. It did some shiftsen and went up the hill organs to 5 kin. W and compel in ofpen rehn gross. Starmed, then set 30 museum Asserola along stone male. Evening colin, some starz, Lone roun during night hut worning clear, Two abodon bolin and I Phyllation in my line; were of some in auto a Plue antiscours sublims. Drove to fundor worl I were shopping, then towards Juli, Gorgeons day

up blustery and sprudsles of rain. Jan. I Some rain in night and until about 7, then day wastly cloudry. Much talky talky unth possing whins. most know about bats but not how or subject to catelathem. Some also neutrona "rata blavea" = ? abracoura? In my trops 2 ahodon bolin, 1 Phyllotia, + 1 Chrocomys. In auta is many Phyllotis + abordon.

with titeren clouds, some planing still going on,

and barley only 14. Comped among stone water and

bornesting of titles etc. Ourver whom boll grown, potatoes

feelds 4 km. E July, 12, 500ft. about darks mud come

Long malh after hurch around end of our penusula. many portate patches on the south site, but the most east ("seaward") and of our permsola is fairly suited muth rocks an arountic shrut, a big torn birsh, some grass, and a few stonewalls. The stone line is quite rocky-shrully, eren diffs in someploces, tour one god sea cause with a humming hind rest, swell and bellets containing meets, and desplayings of either swallow or lat a another good care

•

-

.

1952

hod a vertical 2-foot offening and a chamber big evangle to stand in, ofsening partly occluded by shrublery, but no bata, buids, or droppings. Found 3 other shallow come along the share, each with a hummer nest (one with eggs). Plantago back towards.

Let about 40 trops along the twely brushy coast, and 4 small steel tryps - all bouted with mouse meat, Evening colon & clear with store, 4 moon,

Dest number of zondrika on the periment. Have also seen ante of 2 siges on several occasions around delate (up to 13,000ft.)

packbything from 8 to 11 to Os sea cone and lock, hero
no mornings but didn't do much polaring along stone andle.
The chapter of the migine very spooling in the severelyht, Lee
Humaghier species account. Myst almost boling, temps at "p.m. 62"
boysons day, aming. My traps line unth only 2 Choenings
and about 6 abodon. amto a in the wild rocky part of the

Jan. 2

Soyumaday, sunny May tropline unth only 2 Chocompa and about 6 abodon. amta's in the underwhy part of the perinsola unth wany Rhyllotis (=8) and about to 1 Chrocomps. May face been wany Chyllotia along my line but not attracted by manse next bant. Left about 3 p.m. Reglite great fearth of the stone bouses of feares and the Chopsel of Virginia, and the good tropping terrain, couldn't stored the constant brogen storing and the perpetual petrogle to present trop-stealing. Even so lost about 5-8 mineum Speciels. Drawet alward to Powerla, then tuned books to a med hell about to bourse. Comped gust about the losse way in and put out about 18 trops lanted

+ 3 stuetofor

with budwest parrory rocks, boulders, vanous chypparal plants weliding the by green eppleadra- him horn.

Evening wild + clear, a couple of flocks of 30 thoch

Mises? flew love toward Bolins in lot ofterour"

Those ? flew bock carestward in warning. My tryps

bod! Chrocomys, 2 Woodon bolin, 4 Phylletia et last

one of them a hig shortal - earl fellow, but not andersing

fthuls).

Swoped around hill to come on west aide - a hig helbride come I a but not really durls. a humer west on certing with large young, everyour numbers of (1) bird droffprogs in one heafs (several baskels), and a pair of born? ands flew out, but could find no feellto. Turned muddy at dusk. Som at least & dozen sevallains

go to root in a hole in cliff, the offening only 7 + 4. Put out about 15 more is and 6 still traps, alment failed,

all arend the bottom of a cliff.

Joelshyfted from 12 - 2 a.m., In the ver crewice came (2 to 4ft mide, 15ft high, 20ft dup) cought a sparrar Kaule which was more but relictant to fly. Infapred the net over the vest and got all 3 in the net but 2 got out in the confusion bowing me with a q that thinks was the mother. It eight temp was 360, the rest 14°, the orthorain 72. In the arriving when I released her, les gallet temps mas 37°. The of starting grand over this Comed - a the rather dull fellow with rid - rested from streets . The crevice at the fined of the rest was only or inches mide, and the to work across from the rest was well splutted

			1
	, 1		

PEARCON 1952

unth feels. surgeons weather all day. Temps at 4:30 pm. 19" supper outside at bot-flying time. my trefor beld only I Phyllotian. Half woon, anter with untraget 4 abodon and a half-dozen Phyllatio. Short 3 tent on the lolse. It of to swin to retribe one, water not so and but interrugh Oz for my swimming , Worlsed boils to the big care on the west sod of the bill, metter the houserrest, but another (fodglings?) exapped. Butte good flyers. Sould. the borned ourle quite tours around the cliffs surrounding the care, but coved find only 3 pullets - and their small for bound unles thinks andwarment more of them. Reset some of the best traping my diff line, especially the still trops butted with dielegats, then whent a dogon in 5 along the road wall veur grass Jan 5 kn my trapartito trap empire only 2 abodons. auto with a long line (90 traps) got ? Khyllotia + 5 abodown Swelled skunk and som for. Left about 10:30, gast grubin Juli, then camped near a nice pot-ball cliff west of Same. Visiotas, dones finches, sparrow bombs pallits, our spellets, a hummer next and powent in a tall creviel - come, and two carocaras come to roast at dusts. also got the implessor that small histof mere coming from the purrounding much-grazed relin to roost in the and along a stone walk and Abyllotia just about down. Musced humer on west at 8:15 pm. The flew!

.

•

•

Jan 6 SUN.

Two thyllotia in my line. Missatthe lumer squin. Sprinkle of rain, but then cleared up. Trovo to Fairerrain and was greeted by 50- jorge and 3 of Edvardis sous, almost mudately we found auraches off on a known hunt at Haveirde Lorafa, Shot 4. after skining in the afternoon went poking with the 3 sons. On 2 occasions perdis run acount the read, me stopped the bure, got out and leaked for them and failed to find then although alread certain that we were enthing 10 yards of them. While down at the ford 2 sous went off to shoot a teal and a healato; the oldest stoyed with me. an indian was fishing with the standard hand line + worm. I got out my rod. The son outright longfed at my spinner and said fish wouldn't but at that thing. He also said there were no fish at the place l'hose. 1st cost: a good stribe; 2 nd cast: ditto; 3 Moust: a fish took spriner and all off with him. My last openner, too

Jan ?

Edwards. about 20 trant q-14 "lateren us. also I perdis out in the builey fill below the houserds a Prove sour that Testives outfolights, which he call paja brown, is prototly worthless as pastwel, which he call paja brown, is prototly worthless as pastwel, which he call paja brown, is prototly worthless as pastwel, which is better the bittle stuff between champs of ich most solvable of all. Parminani amplients it shop four feet of most solvable of all. Parminani amplients it shop four bestore for you

after a rain sprinkle went off in search of a horselated what, holver. Then pocked up and drove to our ald company place to ocross the rines





Jan. 6. How. Parmeroin. Jooked for two war rests in to morning, wo lock, and photographed fickers, but too clandy. also anothe two trust, then bodded for tratificer. Junch on the guiser fing-twee pamps but some not a one. Because of the recent good meather (but beaugrain for 4 br. this afternow) the books rood to trustocer is said to be att ofpen, so me tooks that. Compad above santo know at 14,000 ft.

Jan 9 Heard timemoties in a. m. and repto the divide where soll stepped to clear teal + hunt trees. Friedly

get a tree here - a big to opinion. Stofferd at burchtime between Pasto brands and Parufon

Viscocho to book for rhees. Four were, and no troclas, but notion who him here sogn they

and out out pampa in early worning.

Part out to traps infrant Choler on parupa after rain - bail storm

Jan. 10 Upat 3:30 a.m. to hunt rhear. Indian ddn't show up, so

At 5 wardled off into footballs, but sow no rhead or tracks.
Many minor. Left about 8 for Tutufacer with frequent steps

to bold for rheas etc. arrived hushtime at our trea comp

5 km. E Logo Sucho, 14, 600 ft. Sented by 2 syrodrous of

Transter. Halt som in pom but evening mild. Full

moon but frequently orwest

Jan. 11 Tempe at 5:45 a.m. 38, normind, foggy but sun soon broke thru until landed over about 10:30. Harlshower about 11:30. Temp 12:30, cloudy + unidy, 48, 2:30 ditto 44,

Snow+ rain from 2:30 to 4, then colon but cloudy. Temp at 7/2. m 34"

morning and but color, hogy. Ground frozen, little flowering plants covered with summand frost; the corollar closed north sum reacher them.

Jan. 12



would treat in morning and checked census area. Weather about some as yesterday and day before - enough prespetation off roof to supply water needs.

TIME	TEMP.	HUMIDIT	CONDITION
5:30	26		
6:00	30	85	hazzy colm
7:00	34	88	hazy-sunny, colon
8:30	42	78	in large o
9:00	44	78	Arrand
9:45	48	74	seattered clouds.
11:00	54	64	mostly cloudy, rund
12:00	55	63	
2:00	49	78	roing windy
3:00	46	83	" rundy
4:00	41	88	duzze "
5:00	41	73	clardy, colon, not rong
6:00	41	93	" winder " "
7:00	30	93	, midy , fait driggle
7:30	36	93	

Flies brigging in som at 8:15 with state tents. 5°; no hypidavit.

Various two westigation welding patting out 15 goffer trefts.

yesterday's 20 MS cought 1 Elignodonta. Also set 2 for trefts for for that pealed ainto a tref line Weather about like sytationary but less precipitation in afternoon, fight

Jon 14 Inch of arow on grown in Am. Hunted forea but som none, then
checked two traps + hunted on my census area. I ob hod mented
several traps but no damage. One two, 4 spring. Som hig whitetailed hawk perched on rock and then sharing area near him.
Morning built man, then wind shifted to buig hail + sown at 2.

Jan 15

Anon almost gove in morning. More two hunting and bohysitting in morning. Weather not quite lypical in that morning was clouder than usual, seny little sun, and rain-boil come earlier than usual. Considerable rain and boil, but evening colon, mostly cloudy

	r		
		·	
·			

Time	Temp.	1+ midety	Trime	Temp	Humidity
6:00 7:00 8:00 8:45 10:00 11:45	34° 38 42 45 45 48	78 % o 92 92 84 57	1:15 2:00 3:00 4:00 5:00 6:00 7:00		64 % cloudy 64 sunny but cloude 68 cloudy 84 bail

Jan 16. Temp # 5:45 am. 34°, 21-7:30 38. of for in traff near bus. Much ther extelling & hunting in morning, for string and two-dyging in afternoon, Very little rain in afternoon until vego darle, then considerable rom- prom

Jan. 17 Nice summy morning, beary bail about 3 p.m., supper + evening calm with some clear sky, Walked up to the turnour desert after lunch (much photo in a.m.) to dig around the big isolated Festiva clump, Mong treo tumolo m 2 lugles, and 2 vesta of clopped vaise your (Festiver). Droffings mifed with the grass. Mo young or food, Out in the mobile of this desert found sitting on Fet about 20 museum specials arrans turind my census area. 13 offher trufts +2 fot still set.

Jon 18 Weather stretty normal. Hand about 1/2. in. Evening no presentation. Only I wouse trafs ofsering and this drogged off a short ways by for. Fortracks all around.

Did 2 censuses of 3-foot square plots in desert one on my area and one a few hundred yards south of Bus. In the latter 3-foot area were 17 "carrot" plants which weighed 71 grams after sholving the said off. this doesn't well 6 little seedlings not wargled



two over but it has a greater variety of plants and more individual, but most of them smaller. Total weight will be much greater. Neither area picked at random, but reither with whim regetation wither.

Put out about 15 manus specials across and about edge of my two area, plus 2 more for trops.

And to fours of desert a small done (metrisfielis agrees)

For absended with trup. Followed trail for about a mile + = but lost him in ruchs, most of morning lotonizing.

Jan 19 SAT.

From the 3 x3 ft. area on the twee census area removed
220 "odult" plants and 14 suddings = 234 plants. When
washed and air-duck to remove surface marketine these
weighted 477 grams.

both blossom + useds in the stomachs.

Lite about hurchture and drove a mill or two toward tentiforo, then out outs Pampa theatire. This is a surjectly for a green prompter units a cought of streams, many alpose as to sheep, and a few houses. The substrate is rather circlery, the regitation, except for a few patcher of Festives, monther more than 2 "high, mostly less than an mel.

Only holfofthe greensward is due to gran (mostly chouly cropped mate of the grass allected on the two census area), the rest to a dozen or most ting not plants, such as Seneros etc.

Shootly after me stopped 6 Phyllotis bolimens and he seem predig rear the bins. Also prime miners, ground doner, and several pairs of healtaters. all except the

. ·	.			
		·.		
				`
		,		
				,
				١

healtar chrappeared during afternoon rain-they didn't even seem to barow it was raining.

Morting unth very tittle sun, raining afternoon, light rain in even.

Jan. 20

Traps bod ! Heaferough, 2 guesnite Ph. bolimenars, and 3 orbita , The Heaferough out on the painfor not near any boles. We worked they show up in our pellets. At breakfast with burecular counted (5 pers. of healthan on the painform after some photography left for Tutybore and was greted by man Pulgar again. Showed for a trine, then drove off or a shea hunt book toward to rate, then out the Kro Viseocho wood, But wongot stucks, so lock home again. Then set traps in some wie rocky hills great east of Tutybore willows. Fots of insealer drolpings, but also lots of crawies and dook cavery places with hish culculain, thing seneios, Poo pearsoni ste. Evening colon with some steer.

Traps didwell, I Ph. bolivienars, 5 Chrosony, 6 Phyllotia

Janzl

downing. The tolo anthis rocky yarette bell was alword all Jepsephyllum gradrangular, and quite abundant. at our comp 5 mi. E of Jogo buck, some altitude, I rigidem was by for the more abundant ant in the Festives (payor bravo they call it). Plane seen quadrangular at least to 151000 ft; sometimes growing in model of a clumps of ingidence.

Jeft about 6 a.m. on mine truck up to the numes.

There apparently only go a pen hundred feet higher than the

South from turnoff, which gives them a range up to 15,300 ±.

Vegetation gets scoreer asyon go up and about 16,000 is

		•
		•

is so searcas to wake traffing soll propects foor. a snowfall of 8 or so covered the ground forthe last 500 pt. or so and 35 muches were out with should and bod her out for sometime) clearing the road. They were equipped unth showele and dark glasses; all with auto-tire sandale. The road seems to go within 1000 ft. of the very top of Trutypora, which makes it over 17,000 ft. The runer line in 9 hovels a jewhundred feet below the top (and) of the road. and behold, night outside their battery of hitcher they have a soccer field o as me drove past their huta Psan a large short-turbed rodert run across the soon into a stone-wall. Might have her a yering - pig downesticolo. Snooped behind these hits a bull hour later and sow 3 smaller rodents. Shot 1, anabodon folimenais. also around hutawers several furcher (plumbions?). Here were only vertibrates that from (8 a.m.) ours), but there was up to 3ft of crusted snow onground and very little regetation, sulfin sevel in our, vopors from peak of tutoprer and for more vento in side - Ground probably low circley and porous to support regetation, but across the valley could set green super at this elevation (17,000) Left Tertuporo buchtime, and dione tarm rain + bog to comp about to vata at q 500! Our former hotorata compacts at 11,500 : bod blossowed with arming settlement complete north gulvaringed vogs et al. get about 25 traps awarg cereux coeters and the shully

herb, mostly clours old decaying terrock walls - the terrois

•			
			`
	•		
			. '

Much of the dive from testapoer above 13,000 ft is then country with in govetto - mile often unto of grat youthor country respects much bowestery by the surfler boys. I bey gother only dead heads. Some y arethor as low as 13,000 ft a couple of good quenora stands between 13+14,000 ft. Tred to countries so but couldn't - very close + indistint, an - include is probably 50-100 yrs. old. Many seldlings at one sport.

Som a morela as been ar 11,200ft, shore 60 to to.

Janze Thee Phyllotro in my livie, 2 monta 's. Drove
to Town. Found the sealest + the washboards
rother that boring this time. The lower regulation
spranse, dried or dryings comped ontards Town, 3200ft,
some wild prospple, dried barbs, one little legume in fruit.

Jan 23 Drove to Tarata, then just begand & about to compa
Stepped for photo about every 1000 ft; for negetation its seek

photo second. Road goes oner a pase about 11,500ft, shell deserty

then drops down into the Tarata Holby, which is extensibly

terred & irrigated to a luck grain with alfolfo, poteties

I/4 grown, corn, guinor, & a little grain, The assegness and

molls thirty grown with brushes & cacture. The road winds

who hill then the terroved fields beyond Tarata, where me

campled about 5 from. a most beautiful and idultic locations:

steep cangon & mountain scenery, great terrord fields, enoughthus,

a neally of bird songs (thrushes, crown specious, humbers),

			•	·
,				
				•
	,			
V .				•

and the seent of cerems blossoms. Let about 30 MS. along walls eta just at duck, and the ceremscent was partialarly frogrant at that time.

Jan 24. Strand of Senen by course Phyllotia in my traffs and about 10 spring + empty. Shumied + photoed, their grand up the hill to 12,200 ft - still andy about 2 km. (w.) to brown to arata. Set traffs (about 25) of among webs and brough at this level, which about a mitture of west-slafe to attiflano flore. Cerens, boury, and avoid total a afuntion costs, pereral species of lowland bushes and anto; then to represent the attiflano: Polylefais, Sopido quadrengulare + Bacolaria? (see spec.), all laston.

Not represented on yesterdays series of photos from Town-Tarata: 3500'- wildpinespels, small duplies; 5000- withing; 8000- tree contras

Thendrone both to 11,500' when the regetation was a little thicken. Here was neither Polylepis was either tola species. Many coeti (Cerem, bairy, and flat-land opentia, point contra (mith points about 1" draw), and a little joint contra with officular joints), also a dozen or so species of alrula, some a dozen fact tall, especially along the asseguion-moliding ocotillo and the big robust green from bush that was common at Pomata. Protectally no grasses either here or up at 12,200 ft. ante put out a trop line near the big bushes along the asseguion. For forth dung all afternoon don't 1000' whose we.

Jan 25 Trap results good. My his at 11,500' chong rood mall and stone wall thin bushes: 4 about busheshii, 13 coarse Phyllotis, 6 soft

Phyllotis. and the herlepschii in afternoon, others were dry, hence

•				
			-	
		,		
∢				
-				

Myllotis, and 4 soft Phyllotia. I had about 35 trafes out and about 1'3 of my catch was in the trafes at 8:30 pm. when I ran them by yockbaylet. Photo at 11,700' can some as well for this level (11,500). Founda fem Baccharii (see spee) here in bottoms.

Opat 12,200 among stones in goodrangulare, Boschais; Polylypis, costus, and lowland shouls, I got 2 birds (Tocos?) under stone shelter, 1 berlepschii, 3 coase Phyllotis, and 3 soft Phyllotis (darmini:), about 20 trafes. and, among big rocks and Polylepis got 1 berlepschii and 3 soft Phyllotis.

Forgot to mention at I sun English sparrow at the smelter at trulupoco.

Thermal all morning, then drove up the hell further. Disappeared into cloud bank at 13,000 pt, so at 13,500 stepped, set a few trops, then drove back to 13,200, set a few ware, then back to a big meadow at 12,800' where we set some more and compled:

12,800'-comp or gramy mendow. Consorderable Polyletins, Jelie qualrayular and Boscharis' and bouland about melideny the "point brush".

Some small contins but no cereus, a few patiles of having contins in the caugon, no gareta. Seed snips (Thursday) and book + white planer. Temp. 5° one cloudy down, 35° next pannisoften clear wight.

13,200'- Backeris', grodrongulare, lupine, orange pointhush', Polylepia in places, some yarata. above 12,200 the tell actua legion to diapppear and Polylepia because more abundant. Virgenda here among rados + Polylepia.

3			·
· ·			
			•

1952

13,500' - gute open + andling. Mareta, byrofsbyllum, Bouchais?, a little Polylefis around rocky places.

Jan 26. Trapartel: at 12,900' me mitt = 35 light -3 coarse Phyllotia, 1 soft, 1 Moranosa anitu 30 traps 3 soft, 1 Bolongs.

at 13,200 me nuth 12 traps - 1 soft Phyllotia, 2 Bolomys (all among rocks + Polylepsis)
auto. 16 traps - 3 soft Phyllotia (along roodwall)

at 13,500 me until 5 treps around stone mine: coopt Phylloton.

anto 7 trops - 1 sopt Phyllots (along rook wall)

Color of ot a russing of humal while remains my traps,

ipent, runes of the mening and properties of some services.

Oute fort out sout 30 before for more warness and 30,

11 horning met & sunny, afternoon cloudy but no rain.

Evening with stars.

Bolomy lestepachi, anto bod I soft Phyllotia, 2 Bolomy, and 4 course Phyllotia. Stammed + totomyed, then door further of the hil. Polylepis disaffears I bout 13,700 and at about some time brush your appears. Things mere rather for might at a not respect to 2,500, late afternoon with some bond, mostly rain. Some cliffs and rock shieles; dominant plant youts but also a smaller throggery youts, furrouse sage, payaffyllium, spendflyllium, analla arount of Festica, plan Instellar ite in the sufficient of views there are first views seen and to a surety.

I views there are first views seen and to a surety.

I views there are first views seen and to a surety.



of which much sign urberene shetter rocke ven the smelly soge. Some store in evening.

Jon 27 Temp. at 6 33°, trace fire. Morning clarity, about & hour of Dun at noon, then for closed in again (as yesterday and day before. Mortraf line bad i Privary, 4 absorber and 11 Phyllotis. Ready to leave again Just are for them in Phyllotis put up, them out gadult 3° and

I non-prey - 4.

Drove up to 15,200, then stopped because it was two forgy to see the scenery. Themed for ature, midst forg, rain, and snow, then put out 30 trefs midst yareta, tala, wat coetus, huromp soge, and crewick plants. Evening driggly-snowy.

Still aroung lightly at down but soon stated. about 1"1

Jon 29 Still snowing lightly at down but soon styped. about I "of

snow on bus + ground (snow didn't stay on lard-poolsed ground such as our tiel tracks in gravel, mode before the snow); still foggy.

Temp 34° at 6:00 a.m. Heard Twanstia, sur mainla.

Wolling in my traps, but in auti a 45 were 3 Phyllotia darwini and (abodon anderium. Som droppings of Privarings. Vegetation youte, grodingulare, cushion coetrie with crimson flowers, Privarings says. Temp. was 340 of 6:00, cloudy, started enoung again at 10:00 with temp. still worder 40. at 4:30, 39°; at 6:30, 34° (last two temps tolser at new camp east of divide)

Despet from monthly down after the divide (15,400'), then a letter beyond. Western approved is rather baven aftered + rocker, but just over the divide of tration and tolo begin, and clemany.

Camped at 15,300' among Festiven + tolen - the open-leafed birding the volley and the compressed (quadrangularie) on the

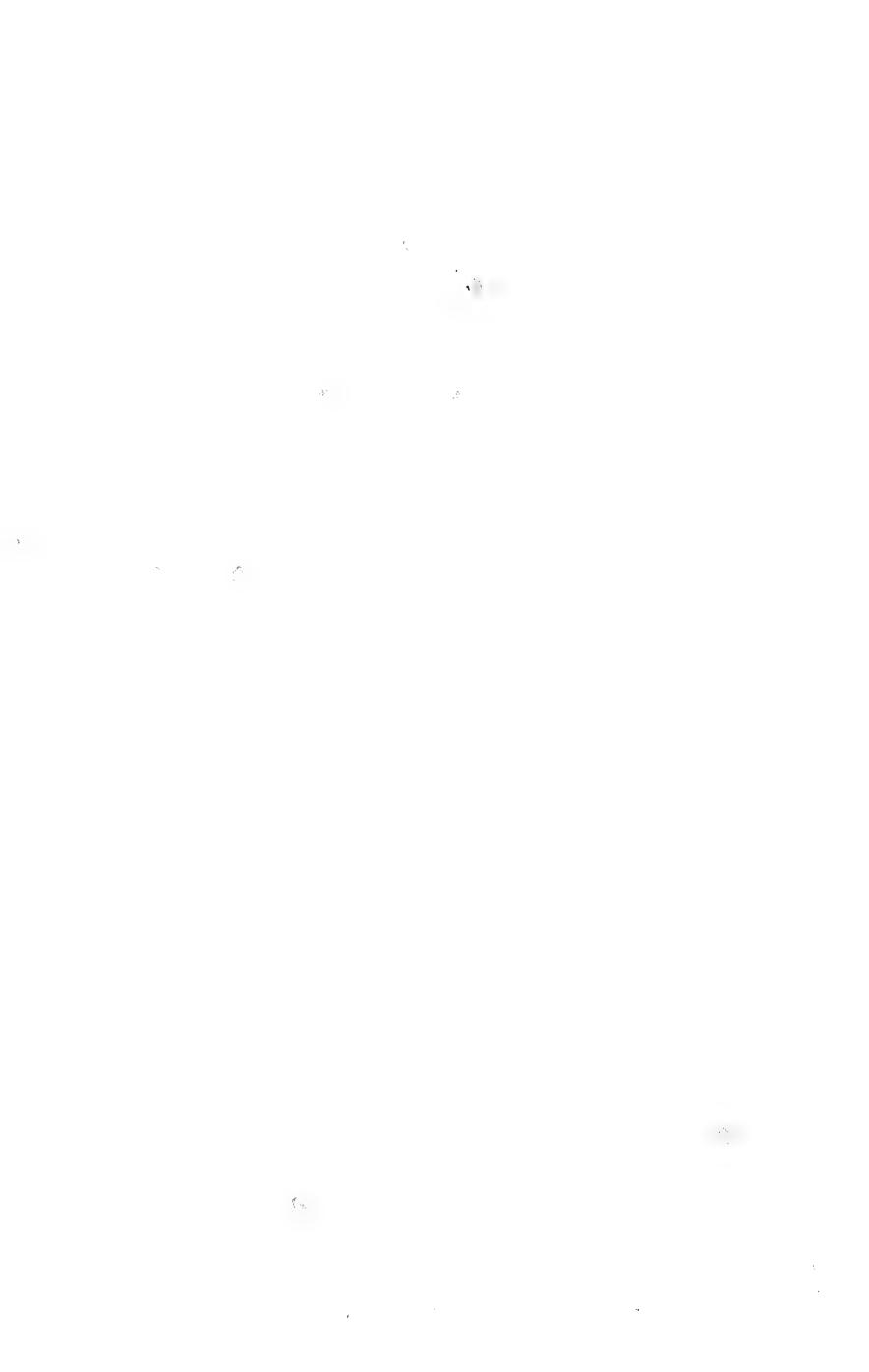
			•	
			14	
•				
	ۂ.			
		,		

sloper. Some wee rock sloper + yareto nearly. Set 5 two traps, and about 25 MS arrowy rocks and across the sandy-groudly valley. ante put out about 40 ms then burch grass + tola.

mo sun all day and little insulity

Jan 30 Sprinkle of hour on ground at dawn, temp. 32° at 6 a.m. at 8 a.m. 36, foggy. anto got 3 abodon ardins, lgot 1 treo, 1 abrocoma, 2 Phyllotis durum, +2" ". The trea is very big, falls - more rufous than afairing, possilly one of the big chilean species. One of the ardiner cought in afternoon. Drove bock up to to dinde to look around. Some of the greetly soul too stong for trees; that with right letture sarely with enough food although occasional Wolstrake and buchgrown), auto put out 30 ms and 5 stell trafer ma great rocky talue with sparse bunch grass and exerceplants. Some droppings bolsing who morals, abrocoms, and Turong (attlong somethy soge). Hood a total of about i hour of sun rear 10 a.m. then clouds, fog, + draggle. I row locks to previous right is compat 15,300ft where I put out some stat traps for more abrocom and about 25 MS among by rocks on slope under cliff. House regelation but numerous mococh droppings and somesmaller. alw mode & for sets to pretent the alrocoun traps. Twigglo + soon all afternoon & evering.

Jans 1 Morning Googy, 36° at 6 a.m., 2"of snow on ground. Moule of my treps spring atthough mouse or rat tracks around. many looked like alrocono trocks. anto a line upon the dundo conglet I Phylatis + I akadon ardunia. She is



commed that Purony + alebrana are there, and moybe

chirchillo, Monoretinas in my trafsa Then drove on toward Peno. a few more two drygings then a considerable histors of rocky burch grass + tola. Then affproaching challapoler (13, 800) is a wide sloping pampa of tola containing tree dogings - a smallering of Polylepis at 15,000ft. after Challaforlin (where they beek weathersecords) the road climbs up a garge and opens out outo a pampa at 14, 300 (Capago). Stoffed for burch vear a set of two dogerings where I saw z dark-hoosed treas, no bubbling. That are, which seems to be intermedate between the Santa Rosa ofarmin myrigh and the big rufous one from Livine. The Then took the Regueour road from Capazo, over a & stude, then down to the Parysa de avecmaren. The divide is Festives country with twesdayings. Left 4 golpher trafts at fresh diagrings to be suited up towarrow on the way back to the Raw road. The paryso de avenuer is slightly rolling with long stetches of tota or of thorn buch (Mony verifice). Two daggings in a few places. Found 3 sets of fresh diggings went our cumps and set 6 traps there at 4/pm. Survey prog dreffings too, think. at 6 had 2 troos, one of them a mottled fresh, both durk-beaded. at 6:30 set 20 MS around old corral in thorn bush and and

anto set ± 25 in similar, Rain after supper Some

patetes of sun during day.



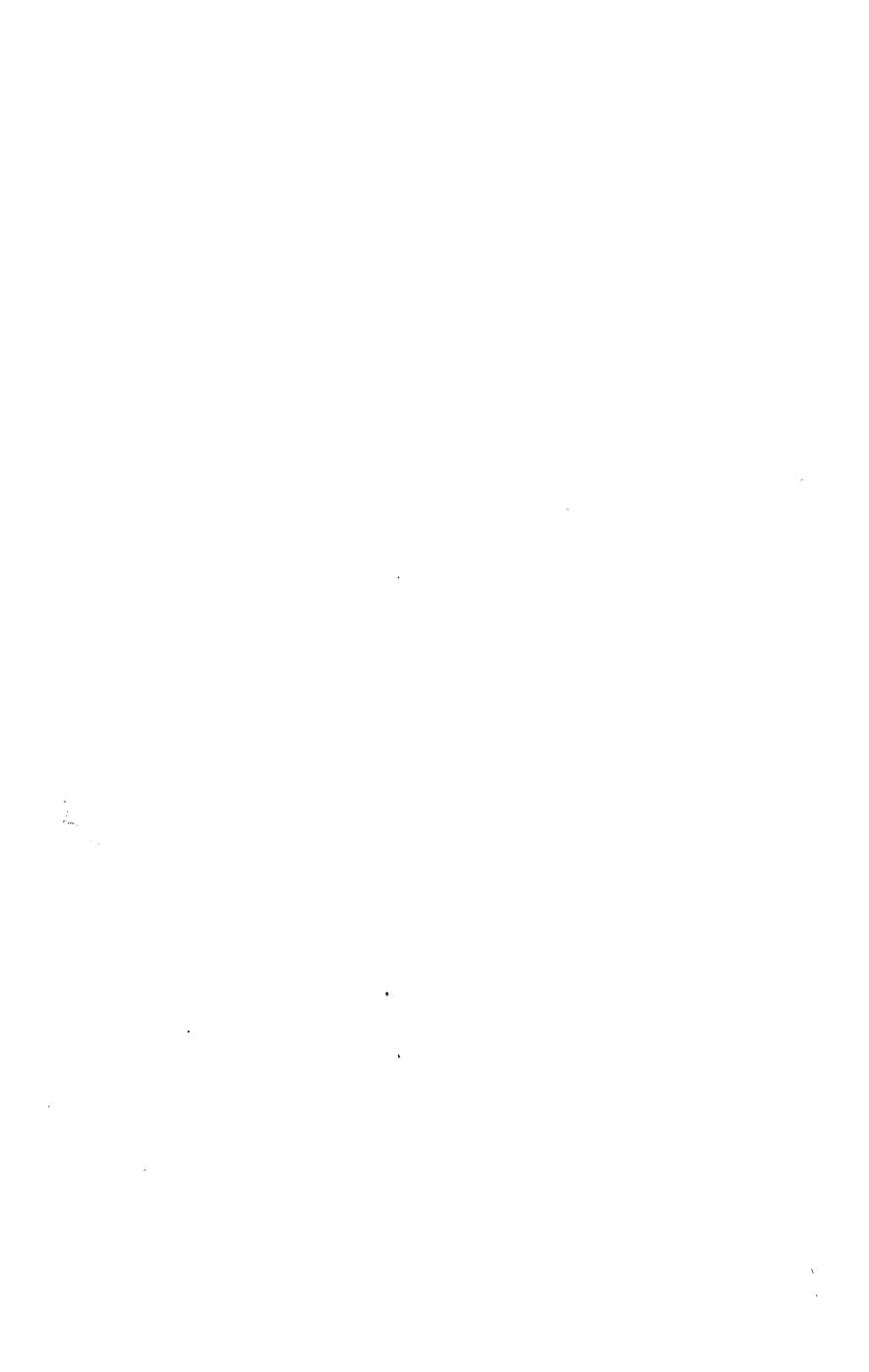
- Fab. 1 Paupa areonaria. In my trops , Ph. bolienais and i decuring plans (most tuco, and hod chrowings and by He servings. There plans the letter i persongs are can and ing the servings. There hast very while your interrupt guies 5 mine -5 species.

 Morning onese to Prehad up troops and draw books to the summit latures here and capango where we had left 4 two reps.

 a twee in term. Skemmed there until him time. The passe is 14,5:01t, Features and some tola (rightern), Poly leid up hopes. Commes both pumpose from there. Then trave books to acconvarient to set traps and as a for night.

 The pumpo her is swaring in little gellow-footed to higher took also numbers legals, thursearing a four finallytes.
- Feb 2 Inch of avour on ground in A. M. My traps food darwini, believer + bealepachii. Anta's traps a sublimio?. Her line at 13,800% was very sociesoful; about 25 traps = 3 sublimio?, 1 Hesperomys, 1 Ebymoderation, + 6 berlefachii, Vegetatron Reve rather lush with egral parts of Featurent tola (rigidin) plus considerable Properophylum. Sourced-stone soul, slyttly to stone for many twos, but a few. Festure in floom to seeke Her line at 14,200, 11 traps around course = 4 darmini. Rockey ground, ichi? (see specimen) + tolo (quadrangulare). Jame Pyenofshylum.

Drove book to Pampa Capago too skint set trapo fortucos. Set arrong Festuca + tota rigidum. Illamore, alforeus, twiening impet on the pampa. Phea hunt in afternoon, John many spirmy tempty twee traps ' Raint had in afternoon, evening overast, colon. Just lefve duck pertout 30M5 around



a corrolin Festiva - tola. Good sign, and about 10 cross-country set at two bolls.

Feb. 3 Two two in tropse (one a young ove), an Eliginodouter in Growt of a two hole, and a Ph. sublimin in the course. Thinks com west would have cought work (than walnuts).

then a wind when we canot a society fill cleared out of the tota. There remained worthy Prycrofshyllim and the lettle 2-wich trest grass. Two were streking their hads out. Blot 3, and missed 2, heree 5 per acre.

Level by red rock congon at 13,500 ft. (Kaford comp?).

San perdis and vicinia there, two burrows but not freak
ones. Several bours of glorious sunshine here and on the
may down to Mogrerus. That the transment 13,200,
gas above Mospoerus, then comped a coupled miles bouk
the santakoro rood vear the beginning of the tola. Some
old tree diggings. cutta fait out traps. 13,000 ft = one righten, somethors.

Feb. 4 MON. Heavy rain during right, Trais quite an assortment. Drove out outs prings for a very, then stopped in glovous smushing for draying openium, laundry eta. Vicinas at 12, 900 rear Monogoring and organic near and grines frig two prompts (Quellesto Heavy rain in afternoon. Drove on to our guines frig place to camp for right. The pumps between Monocruz and Outwood is very west much starding water, room ditclose it. Mossily it too west for twees or guines frigs, but our camping place is gravely exough with runsible drawage so that you can still drive on it. Pauspoins also greener than every wrothy due to very short toft grave to



after we had stoffered and while it was roung & flowing a girl come to the hour and offered for sale a steel of flat grines po stares

telis drowing sunny. a chrocomys - and a painfre trops. Summer propo out a abundance shortly after sunrisio, treas not until sun was well of. ahundret & bubbling. also house cat, haute, inverse, gulls, block timbete planer, and numerous tooks or frags. also logards. and also llawas, alpoceas (some approbling and sheefs. Passing wodron collect this Paintes de Son jum Capi Home pellets from Magocruz comp had begard scales and fur

that levalsed hit gumes pig.

after hunter treas & g. pigs, drove to our Ontive congon company place to obin. River very high + worldy. Then in late afternoon to Pairemani. Er gorge says this is a very net year. 1948 was especially not and then for 3 days a mon on burselock couldn't cross the Varo Heregare. This year for 20 days noone has crossed. He said the road to thousand facaboen was impassable, so me shall frost from con twee study their. Comped along the mer reason state bouse repatreon on Ho Vaismoni. Port out about 20 trajes along a diffin retur, along a lomatone use correl, and in an unused adale buildings thes in model of right but orecast in a. m. of

Traps cought 2 Phyllotes down and and 4 of the big Kaford Phyllotis, overoftlese in the building. River still very high but much Soverthan yesleday.

at 8:30 went hummel photographing on the hell teture the birdy and the Ontone birldings. Parts of this hill, expecially, boses of eliffs, have very rich hush vegetation. Thick tall bunch

•	-Western .
	1
	·
	·
	,

Ortane is reglected, little grazed. He the The bill offer aler four a protected, little grazed. He the The bill offer aler four a protection of Bocharia, gradrougaline, & Trigidem. Ment the type is a little folylips (awall), a strinky soge but not the formings one, a showing sed flowered flower brush bush, and a few water of flyerofts flow. Phus, of course ichn to Festova. In one of the never deep canyons or clefto were 2 housed? and, and in a shallow come a human west containing one young ready to fly. I ween gorget, from mid-realish stripe. Found one big bush liverand realing for below one. Pestweet him ite. as he wandered off 2 44 showed up and they went off tog other to civil look over the top of the lit. I shalled the of a couple of times.

Set 5 treo traps vear bus (all dryings), and some M5 up near the cover + cliffer. Foundaryther human rest in small but will cove.

Feb.7

Most of day cloudy & hogy, little real sum. Main in suring Upot modinght to eath human, just it excepted, much another. One big Phylotia in my tape. Might orenest, with some run. Temp. at modwight autach 5°, at 6 a.m. 42°, at 9 a.m. 11° Morning cloudy bright & peatters sunshing. Found flyestaken next in another came and collected (soverthe to caus mas 5° mots, 10° high, and 20 pt. deeps. West on ledge half way bock, 7° high, mode of twigs & gross and lived with llamo or alforced wool. 2 gawky young. Parent causing at once a moth, a wasp, and a green grant.

Seared what focked, dones, 20 which tooks sheller in the big

Care, then flow out when tentered. Herselfato trocks in the

fly-cotcher come. Mo sign of hummer around her west.



There are some authoritest fields highriff among the cliffs here probably 13,500;

Drove to Pero outstants. Sunny most of way with Titreoco clorda. Main after durle. Potutoes in flower, grain beadle but green, guiroa 1-zfeet tall and setting sed. Sow my buck huernal in the walled full along the river just above the frage. "When-tite" (=? ? = Codornice = ? Mothma) singing at sundam.

Feb. 7. Puno allday. Surmy alwast all day. Some rain & hail at 5 p. n. Camped at our codornis reating place, but no trace of the mest that I stepped on Murch "inen-tit inhistling at suffer time. Put out 20 ms along mysame ald traft lins. Might clarky.

Whole trying to trangulate sentulogunal "usen-tita" and chargered a codornia nest only 15 yards + from the one I stepped on Dec. 30. Vegetation Leve is predominantly ichi Isha I" year tuft grass, green mats, and a small amount of tota (godrangulare + Boerbaria). Mumerous stone malle, and arroll felds of potatols and (smollgreen undertified beaut). Decoded to story to wortch nest. Trups held 2 sp. Phyttotia, Hesperomys day absorden bolin & Bolongs annews. Many fættler welking over grænd, also sam orange-billed og reg frich with floods bead. Temps at moon 58; 2:30 62°. Lumy most all day. Richard up traps at & pm. lacourse undrin boy had spotted several- Turanou not returned to rest. Feb. 10 still no signoftimmer ven vest. Photoed nest etc.

Tempo at 6 am 41; 7:30,50° Then left for Hunglison. Day mostly army until about 3, then (at Hooglover) much

•

.

P. P. 1952

hard and snow. Collections on young included:

1 Mothers at 50 km. mark. Perhis seen rearly but exapped.

1 Horeund of good at 61 km., 13,800 ft. Anthers hard. 4 nearly.

2 Perdia at lam. 104, 14,300. 3 others escaped.

Feb. 11 Vicinia watching with Kofords and tinamon hunt ni morning. It inches of snow on ground in morning mode tinamon trucking easy, More boil & rain in afternoon but only about 'z".

Feb. 12 Morning mostly clear with sentlesed chards. Viewin

Fel. 14 + 15. Hongland. Marings cool t cloudy, only afen patetes of som.

Feb. 16. Teft about 9 am with ante, Many and all leids for lan. 50.

Compadin valley at him. 59° at 3 pm. Consideralls rain logining at 4pm and display on until 8 or later. Put out about 25 traps around all stone correl in this ichn at 5:30 pm.

Some of the grassland leve is as this of lush as any Chane seen ain the attiffers. This enough to find actual wouse runnings. Warmer chiefs they trouglared is shown by ante wider rocks, small setting traps.

Flushed 2 Mothern while setting traps.

Heb. 17. Tempe at 6 a.m. 35°, noon 64°, surry most of day, cler at down.

Mo rain. Traffe onenight had I anlierous spiritis, I Ph. osile?,

3 absolutioning, I Bolomy anouns. During day 5 more anneume

and I work believes . 2 of the anneume were cought at 8 a.m.

Spent wast of day watching Mothers + Mothers to.

Feb. 18 more of same in trops. Weather clear in norming, some rain in afternoon. More tromon natching.

Fluig Trefra (same live 3 d night) 6 abodon bolin (overthem

post meaned, I anharings faction, I Mestomyr, i young Phyllotia, temps out 5:30 a m 36: Just before dark post and about 12 more MS ocean the flata. Rain thail in afternoon, night clear.

Feb. 20 Tenf 6 a.m 39° clear, but clouded up, only scattled sun.

Temp. at 2 pm after sunny spell 64° some rain at noon
and boil & rain at duale. Much tramon nothing. Trafes

(some of line) bad 3 abordon bolin. (2 just means), and I
arrown. When line cought nothing annerugat but 2 arrowns

during day. More timemon nothing.

Feb. 22 Hail in late afternoon & evering last inght, Norther were fight after darky in boil storm, tengh, 36°.

Dogwoothy overest occasional any some bail in afternoon. Evening clarish, nother flying at 8 pm. with

temp. 33°. Temp. at noon 53°, hundity 62 %

Feb. 23 Timomon hunting with Kopards down to Sun. 100 and gas at Soltano. Tempet 6 a. m. 35°, cloudy.

Feb. 24 Fremen worteling with Carl in morning, then left ofte buch for priore. Slopped at the father of the first wester where the road runs along a stream and crosses a small paintson. about 82 km. woffeno, 14,000/t. Slopes singled ichin and wolthurse years with some Buchine and grandrangulare. Flats with stone ichn, mothers grass, many viarfours, and "green", and hart and both for traps, but leavy had at drish probably after on and some stones.



Tel 25. Merring clear, trace of prost, temp at 6 35° Most of day sunny, no preinfatation. anta's trata bod 1 Meotomys, 1 sublimina, 1 akodon bolimensis, i Phyllotis darini. Must of day waterney Noltroprector,

Tub 26 Marining clear, temp. 31° at 6 a.m. Day surry. Watched Withoforoctor, confine at ken. 131 from Puno. White for truck to long rub but no triple.

Wightwar worthy clear but not bulbant. Frost in morning and ice skim on probles. Tempor 6 a.m. 30; at noon hay sunny 60. Wridy in afternoon at 6:30pm. very midy, 44. to throught

Feb. 28. Morning clear, fresty, 24. Dayalldlar, again becoming funts hereall amon tolar leve. Som ants both total y yesterly and son a cat pretty high. Watches Mothofsweter and marted for a truck to Puno or proca . More.

Tel. 29 Temport 6:30 pm 42°, mily Morning clear, temp at 6 26°, at noon 57° Triamon hanting in morning. Two trustes went then but no room for more passengers in the one two able to haid.

On 3 occasions whole have been crething asportmanour a llamales spotted me, and approached, and water a land call sounding libro 5-yr-old Ford V-8 starter. It dan & distuit the tenamous. Trusto Kur about 5. Broke part of spring near Timegholea (5 tous of batteres and boy ofygen cylinders) but roads Kuno by sudwight

Muly Shopping in Preno in a. m. Motrueles leaving for borne from kno, so ivent to foboca (2 soles ereins, 2 hrs.), Didnoel shopping, mated buffy, who had a young spectacle for for Kofords, then left for home 7 pm, arrived 2:30amm.

-f **

Marel 3 Morning onbrack early, noise, but letter anny. Took turns notehing rest + other transme. Kaforde called at 3 pm after me bod sent them a note repth wood westwise + Evening clear.

Mouthy mostly suring in morning, but raining after about 3 pm, turing to snow, watered triumons. Put about 20 ms. in grass plus a little tota along stramfed. Oute a few pertongs blood droppings.

Month of Swattering of ien-soon ongress man. Temp of 5:45 30°. Morning woodly summy rain soon in wind of terming Traps beld Mestangs of abodon bolin . Watered two man and

March & Traps Led 1 abordon bolimens, 1 Chrocowys, 1 H experoungs,

Temps at 4:45 49° - thurdry cloudy. Watched two morn,

then at supportine drove ys to Kapard's to yet our baids

bock. Picked up trup line. Hand in late afterior. Leak car.

Marchy Marringfist clear (temps. 30°), then foggy for about

2 hours, then surmy organ. Kein-bard in afternoon, evening clear. 39 out 6 p.m. Bod goodby to the 2 gringo townsts, then watched two wow.

March & Lumy all day, realthed clouds, temp: 6:10 a.m. 26; 10:30 a.m. 52°; 5 pm 8°c; q:30pm. 38 dear.

thousen only I winter at this comp, and so for no sign of foren or deer. Butterfless togress boppers fairly almostant, some lingards, lots of toods, especially some ting ones. Watered twansom all day.

Marring clear + away, Touts, at 3p.m. 62°, felt hot, lats inshirts ate. Carl come down in a m. to see two ware to. at and clouded

oner 4 mily at 3:45; myht eller.



P. PEARSON 1952

Monky Tenf. at 6 26°. Pce in bus. Hunted tenamour unth carl, watched in afternoon, Day alwast all dear, no prespitation.

Watched twown up at waterful. Some human by cliffs there is Port out about >5 MS along fort of cliff, then in this grows changes up along, materful compon, then over sparser hilliefs to majorathing bland.

Model of Trefer held 6 Chrocompa and 4 abordon bolimensia, then I chrocoma later in day. Rain from mid afternoon until evering the Watched teramore and hunted.

Markiz Clovdy inearly evoring but cleared about 10. Trafes held 2 Chrosonya, i Mestarge, the sollienia. Watchet teramons. Kofords come for holf in afternoon and stayed overnight.

March 13 Cloudy in morning (but frost), clear in afternoon. Mer rain.

Trainon huntery in morning with Carl. One Ph-friction in

treps. Shot an ash-beastest friel for carl. Other common birds

lese are Civelodea, "Jorotribio, Sicalia, other less common are a

hummer, a grey-leveled yellowsholed friel with grey vinge,

Verenthia, authores, paragret, caracaro, phriber, morain'

Several passers by call this locality "Toroya".

Mouls 14 House old traffline bod 1 2/3-grown Chrocourgs, 1 & grown Chirchellerler, and 1 Mestourgs. Ferend of the othe Chrocourge on this line have been sub-odulto. Reclased up these traffer. Watered for traversers on florta. Put out another line of 20 trafes in gross-grodrongulore, and 7 along base of cone-clift. Watered at rest in afternoon.

F.	
•	

Markers Morning onerast, no frost. Most of day cloudy, considerable

rain 2-4pm, but evering mostly clear. 2 abordon bolin. in

my tripo (1 adult o, 1 holf groun) in tola-grass. Quite afin

of rung + empty. Watched tersimon nest. after clarke out on

flats sow a glow-worm in the grass (= a to - inch larva,

guite luminous).

Mona 16 Day nostly dear, midy in afternoon. Trefs Leld I chrowy a abordon bolin (one < \(\frac{1}{2}\) grown, I Ph freture, and 2 united the sport of preture but he with factorial the land the earse. Several spring engine engine for along has of cliff and in the tola (the mystery will now intota). Person of the tola live and put 5 contestrops about the base of cliff in helpes of above one. abundant ingreater deflappings have but have seen no miscoclas. at 7:30 to belographete cause up from Timephalas on his bright to tell us of 2 times wester, so mediate down and had a look at them, then both here at herelitime so as to not west too much at this next a centre put out a tola line. Might dear, midy

Many 17 Heavy frost, temp-24; ice inline. Mothingin my traffs. West 1 still including, so left and in charge of it and wollbed down to the Timefroler nests to spend a day or 2. 174 his to nest 3, where I built a blind of stones

Mark 18 Wated rest 3. Heavy past + some ice. No rain

Mark 19 Frost + ice in a. m. wateted rest until 11:30, then home over

the volge rether than marvood: Tempt at bus hother 240 both

mornings. Light rain in afternoon. Evening ancreast

marks Morning cloudy-mosty: Tempt, 340 at 5:50 a.m. Most of day

			h.	
		•		
				`
	\			

leading for the chitch of turnown. Wobuilt blind at new nest to the afternoon clear but winder

March 21 Moving frosty, 26. Walked to Tirropoleo vests and bock. Decided to more conflor near vest #4 bit got stocks going server parper. Rain-bail about 5:30 to 7:30+.

Morelize Stat Bream unstrele, then done to Timpolar to clack vests there. Then book to vest # 4 where we watched all afternoon, then children and found eggs staten. Roin in evening.

Morelized Day mostly cloudy, light rain in lot afternoon. Photoed +

plant collected in horning, then hunted terminous without

morehay cloudying in. Hunted transon around to some unthout lucks till q, then started up hill to see trafords.

Met Carl on way, so we all went to Timeopulca and hunted timenous till 3, then fished. Rain 5 to 7+.

Movel 25 Maring clardy till about 10. Photo of Mothofereter nest # 2.

Coal et al. come down so me devoted day to fraking at Tringpela.

Cought 5 rainbours, the broggest about 18", rest 14 or 15, very

deel bodied. Two other (or more) brig ones got away with

4 sperioses. Mo rain but evening cloudy. Many discovered

Two other rest by aroun tracking six the a.m.

anta's 12 trafe in the gradientale put out noon

spesterday, by 8 a m totay had 6 about a bolineise, 2 Chrocongs,

1 Ph. pietra, 1 a. awarms.

Mare 26 Took a suit passe at the ling trout, but cought only (11 males.
Thereofold dente to help worten Koford's Transtionest.

Some had at 3-4, then snow about 7:



Munch 27 H naglacer. Teraf 23 pointy, Went transcriber in sum and found another set. Munchone mona & viscola tracks. Watched vem nest. Some hail rim 3-4, show about 6:30

Month 28 about 3/4 "soon clear. Temp 25°. Vateled seen transiotiss nest and baby sot. Photos of Viennes & maiorland Scottered Lands but no pareputation. Some rain during night

some light soon about 5. Photosof nest # 2. Morning claudy, some light soon about 5. Photosof nest # 1 at 11 a.m.,

Still cloudy at 2. Temp. at 1:30 was 42°!, at 3:00-45°, cloudy.

Heavy more at 5 till 6:30. 3/4" fell. Shy clour at 8:00/2 m.

Let 3 stell trafs near next # 2.

The coprock heart at Hosparco alto shows much glavial polish and strations runing NI = - 5 W.

Mark 30 Marring clear, temp 6 am 25°, 3/4 snow. Truebed trianous, took photos, then watched nest# 2.

Many of Morning clean + seeming. Rom traps with Many (Permorning), then watched nest # 2 with Many of Oal. Often level to Timespales where they had another Mothsprocta nest forms. Compade by bridge.

april, Watched nest #4. Morning clear, fronty, temp. below 26.

afternoon eller who. While watching nest from about

(to 3 pm. head morganto-blockmen of squadrone of

grate. Don't remember having heard these before or

altiplano. Evening clear with rind from east, but

not cold, 46° at 7 pm.

offent? Med destroyed overnight so left Timespoles without regrets to west indrain mornon with 2 more vests up the grade



SE form. Drone both with the tola and compand wear the veste.

april 3 Shot the 2 birds on the next last night, plus 3 others.

Dissected ete until noon, then drove as far as Denetua
for the night. Hail storm about 7. I som an aut at
hun 10%, at 14,300ft, in early oftenown a there is
some cultivation of what looked likes a baid of potato
around Logo Solacochea, 13,700 ft.

aprily Visited Duffils in Juliaco, then drown to Puno April 5 Hoffing in Puno, then compad totaran Plane & Juli. Harvest time along to lake: grain, quino, potatoera Pain

Harvest time along to lake: grain, guiver, polaties. Kain aftersuffer.

aprile Inti to Havierter facalaco, the guiver in the JuliPointa regionalment all havested but much attle studing between Points of American. The little law plant with soviel-like Seaves is oco-quite colonful when nearly rifts.

Morning cloudy early, then scattered clouds, afternoon mostly

den. Some rain in norning. Rood from Porrate to Predigioliumi morable - complete with stone kim. markers to Muddy, rocky,

and grees grown. Sood two parispos at Richarpellum.

Courfied at one of these after marting the Jugoslan at Localan. He did not distinguish between twear frais, and

had 3 modaine unth pielas dig out a guinea pag forms.

lean, seathered clouds in p. m. (settered cloudy) HUMID. 2:00 jam -25* 6 am 62% 25 6:39 58 25 70 37 7:30 58 25 57 8:15 38 33 53

8:15 38 57 5 53 33 " 9:70 46 46 6 6 47 10:30 53 30 7 44 34 clas

12:30 69 16 25 (seather delonds) 8 43 33 (almy doubs



Natifed + collected too

april & morning clear, afternoon scattled clouds, slight amount of hard + rain - some hondstoner 15 mm. drawater & Evening calm, mostly clear, watched + collected trans, but worthy dissected these allested.

23% (scattered clouds) 2:00 .60 82% 3:00 40 (sprinkle) 59>Hone 69 4:00 8.30 39 5:00 51 9:30 46 6:30 46 7/ 10:30 50 33 45 11:30 26 7:00 12:30 24

aprila Morning Har, temp 6:15 mas 18, noon 58, 2/p.m. 61. afteron scattled cloude, so prespitation. More two statila and some photos. Indian maiter brought in some groundup toasted? gram which he called kenyawe, which grows here on 1- foot browled plants that are vour turing red and being bowlated. He also said that oca is found grown and sear Juli + Pourata.

yesterlay's trafes (30 m. 5) set award forder of the 90- yel goodsat cought one Phr. boluneusis overryft and one

young chrowys to byord during the day.

april 10 Temps 6a.m 23° Moning clear, scattled clouds in p.m. Tweed till 11:30 then left towards Pryocowa. Muserable rood. Camped near cresta SW of Preguena. Country passed they mostly grass, little tola Some we rocky - cavey canyour. Passed some lush two dying near throwllain, 13, 100 ft, but could see no treas. Probably openin or leverday not personn Trafright I Choeomys and I theoperous ofprove - Andrew Contract

		·
		,

April " Collected Euromys of min along rood in morning, stopped for lunch at river by Challofraces River was warm but despite sum a cold und was blowing. Than done to own fivering camp where put out true traffer. Temps at 4:30, sum stilling, 440 at 5:00, where I bod seen root treats in soon, and fact out about 11 steel traffer. Then morted for dock and jordologited but some votain. My it clear twenty.

Sind; 2 Sight flows clouds in a m. and must of down.

Tend there from a clouds in a m. and must of down.

Tendetter trates and count to the about of day.

Tendetter trates and count to pour staring. In

all day, That out more steel traps along rind rock in

6:00 along 30° 3:30 - 44°

10° 45 4:30 - 40° > sunday

11:15 46 5:00 - 36

evening and again Jockslighted, but saw nothing.

april 13 Temp. 23° at 6 a.m., No trafes touched. More twoining in a.m., then down down to the flamps de Titure and put and two trafes. Campter nove during mid day, but the at about 3:30. Terror is sloping south, desert with tola rigidem, bureless of Festiva, and a truy burel grass. Put out about 20 M.S. and anto put out a line.

April 14 Temp. 20° at 6 a.m., only 1 and union in my line, auntain line.

with 2 andring, I berleforthing, 4 Elymodanto (2 of them ijun), and
I sublimis? Some of the andriver unature. Hunted twee in

at 4pm. and drove to Capazor where at duck flowt some two trafes in the colony where we show fefore.

april 15 One teco in my trefor. anto sighted been about 8 am. Got 2.

		·
•		
·		

Then left for Mayoung, Santa Rosa. about an Lour to gos of in mongoony - a process involving makeshift cana, roller boses, condbourdfrumer, short measure etc. as in other parts of Pern. Put 7 "lates" in my 30 gallon tanks ... Then to just behand Santo Roso for night. Lood abominable, no signs of tracks of Risses or Cutypero trucks. april 16 Drove to the river low Joyo Suche and stopped there for livel, bowent, wash, etc. in preparation for dry compat the tripper. Just Seawy when Steinways done of behind we in their Jeppidarpon monto Cardarane. Dosepped, Chan to our two camp at Interporer where I put out twee Crafes at 5 p. cm. about 12 feet dygings on to census area. Coffin 17 Morning clear afternoon scattered clouds.

6:15-19° 10:36-50° 249. (and takind) 3:30-50° 159. V scattered

7:00-25° 737. 11:30-59 137 4:30-46 24 clouds

7:30-27° 69 12:30-57 8 scattered

7:40-40 50 V

9:00-45 32 2:30-56 9 Countr Day devoted to broom. Evening partly cloudy.

April 18 Mouning clear, afternoon factly cloudy, evening clear and calm.

6:00 - 19° - 50° 10° 12:30 - 56° 11° 10° 125 - 47° 26°

7 23 78 1:30 - 54 15° (hazy overward 5:40 - 40° 45°

9:30 43 34 2:30 - 53 17 (extend cloude, 7:00 - 34 50°

10:20 50 16 3:30 - 51 21 11:30 55° 11

Day denoted to trease ligards.

Official q watered beganda till q: 30, then drove to swatter at lutofred to pay respect to Sr. Porlgar, 5:30 = 210 9:00 - 38 30 9:00 - 38 30 then at lunchture drove 6:40 - 22 82

soil (ash, grand, etc.) the regitation does not wount reighingh.

No stream from melting arow, nogreen selps. Fast transat

15,800 ft. Ligarda Leve too. Some youto away gruts bare at 15,900

It, first sum start 16,000 ft. the miners shocker (compinents)

			•
		•	

are at 16,500 ft (meloding some field) and the end of the read at 16,900. The rood octvally reacher around to the other side of the volcor at about the same level, but was still snowed in. Many drifts several feet degts, but 13 traps inand occurs the numeric hute at 16,500/8. The lines bone youth - burning oil-drewn stover, tule water on ground, plus assurted clother + ponebox + food spread around, Temps. at 16, 900 ft: ran over thermon + hygranetus 73 % night elear 9:10-35 21 6:15-28 90 School by observed 90 School but supel 98 Sunset 5:25 8:00-25 8:30carripments, 16,500 5:35-9:30 - 34 6.30 -26 Then drove boch to the panylor, while stopped for bruch and spred 13 reas, so after burdpuraret them in Breaky for photos. Then focks to our two comparts to final sking etc. Sunny alldog, some cloude. Evening clear april 21 Zunny day, 5:30-24 10:10-50 1:00- 55'-18%. Sr. Kulgar's gul came in the morning to return my ruft - with scape broken. But they forgot to bring one; gos con, so we had to drive to Tulifornia afternow then book to compate at dock.

Opril 22 morning clear: 6:55 - 23 to copputating ligards, and re-took the exerction of desert plants. Watted ligards. Left for Caccachar at heretime, arrived before suppor, In the Country rookin from Pasto Grande som norsterant not a single vicuin. Lote of alfaceart Slower just below (before) our compate. Evening porting cloudy Mo snow on thereis april 23 Coccedoro. Moring clear, then scottend clouds whout 10 a.m. Put out of true traps, then dissected byords and tooks photos of byords.



1952

11:15-520 7:20-330-6890 7:30 Pm. - 35° 397. 1:00-540 8:15-32-69 2:00-54 5:45 a.m - 220 - 340-68% 3:00-53 4:15-48 - 47°-57% 10:45 - 500-48% 6:00 - 37 afternoon mostly sunny . at 2:10 pucked normest little creme on 5 w face of big rucks by and and found tough . of 42°C. Munerous other crevices in full sury in mid thatter. Quick registering therevour. in arm = 21°C. Trafts complet 1 mice opening. Evening colors, class. april 24 autes trafes tool , his atrococion , (6:00-220-100%, 11:40-490-37% 4:40 - 47°-35%) cloudy 5:20 - 48: 35%) cloudy 6:45 - 37 - scless x7:15 - 36° cloud 11:40-490-3790 7:10- 26-93 12:20-51-32 8:20-31-90 2:20-52-17 3:15 50 - 24 Still frost in bue shodow at 10:10. Day with Jewer clouds Fresch with I god temperatures, then photos of wearland in oftenoon. This is still best weedla colong theron of while setting in the weedle colony wanting for sur for photos (runs surrounded and buttern!) by greats. This is the furt but have been bottered by meets on the altitlere. april 25 Spat (a. in to look in mine turnels, Shot , gellow + grey fireh in the conyon rime at some peul where taket ground tyrest in Jan. on diff side, small shelf, then built-up ramp of droffpings remained of cordle-drippings on a tea thoppe bottle, dispings Outant temps were 23°F, temps of west war -1°C. Corchart retriend had with worning so don't personate temps:
1:00 a.m 23° 7:25-30° 9:25-142°
2:00 22° 8:00-34° 10:50- 47° (still frost in 12:40-49°
6:15 22 5:25-38° 10:50- 47° (stoll frost in 12:40-49°
might clor and day all clar, another abover in ante a Viefr, and 2 sullinia in Corole vear comp. Much stock graging around comp (shep, alforera, Marion, + burroff). Bloccal strations at comp run Nard S.

Feft 1 pm. Som no vancon on way out to Paste Smoods croserood. Steppedat dusk a comple of winds east of South Rose. but out about 20 treps in vich gross-tota.

	3		
,			
			,

1952

april 26 Ove told in untrope. Temp 6 a.m. 25° (Soute free) Drove 5 Pampa Ivente cota relect frot 3 tues. Foto of quint free from frances of the from frances of Warmanian day, 55° of noon, 40° of 7:30 pm. Put out 5 golf to the arget 3 11" randows when an indrin came up, asked if she would to buy of fish, and from from line from his pack of 14- pound 31" randow trout! We brought is for la pack of 14- pound 31" randow trout! We brought is

SUNDAY for 6 solle = 50 cents: 45A.

April 27 Upat 12:30 a.m. ter books in conce. Temp. 25° Abot a tyrent in one come, humanerseate in 2 others but no humans Temp. at 6:15 18°, clear. Mothery in my two traps. Took fishing movines (but no fish), then left for Loca-law. One inefpool in the Hangue grage gust obose Hota Ontous booksed good for mounte, so stopped for a few munitos there. Over a hundred trout over

on the Rugious roods Wheat + potetales being formested doing the

way. Onino allin,

Temp. of slepping to grant of 1:000. in 37, come 5, outside 25°F.

Opin 27 See on proble in a.m. but night not say cold. Drove early to

Richepichui, two househ in private, Huntet treas on the censue

area, and took nowice of a fot shriving grines page. at 4:30

left for the spot next of Horsevlovi where we hope to cated

Tenough leverdon. Put out 12 gopter rate. gust before dark.

		w.A.
		·

april 29 10 km 5 W 4 waculen, 12, 9 00 ft Treat at 6:30, 23°; 1pm 60. for other tempor see hypordocent. One war in Tape, 3 informy, 1 with for inst , anto chot & others water should and took angul auferdinea. Feft if. in, maded Busy in rues, carffed good

April 30 Drove to View for shopping and fixing wheel abgreet, then to Duffies in Julian after supper.

may I Shoffping in Puro, then of towards Pareattambo. Stoffped for hund just below kucara. Dozens of 11" trout workle in the river, and one wonster swam off as we offerwhed. In afect of notes, models of 150 river he mode a mobile that washed upon the shore. We found a dead, recently - speared 31 trout in the mater, and anter canget 2 11- unders. Several indrains une bond-prohing, and a squadron of 8 equiffed with series, bound nets, and spears were working downstream and had cought several 2 poten

compet tetimen agains a donto Rosa, in a hay held Mot brinds - grass, but a real field in which boy had recently from cut. Moust be the morater east-side already. The youren's tals charge species at about frage - route flat, well, cureo type. Evering colon, mornish, partly

Driffes soy that wavy althour redries have would down to the lowlands but that they die below flies. Their TB, for ovething catches up with them. Others are unboffpy and come boils home. Many whom attally own their bod bot in each generation this pacelled out

			,

to more + more descendants. Their moved now ownes 2 rune of potatotes. Musher of children is large but surmines few. Vitamin A deficient serious + underpread around forbider - and elsewhere. Teith good in some regions of attificare, poor in others. Mus Duffie Jula that 1 Q is generally how. Passed a ferce today:

May 2

Temport 6 a.m. 22°. Traps bod 6 abordon bolin. + 1 Heaperaugh toils of abordone seemed long thin, the sinderesting that the gran is much insherhere, despots egral cold at might, underen before crossing the divide (Falkaya). Took off early and drove all day - down the Urubamba Valley to below Urcar, then up a dardy road to famountambo, then upthe neft combre to compre Because the road nos one may today (our may), we bod to do most of seemie part to famountambo in the dark. arrived at the summit (11,500) where the Tree Crosses road branches off of 11 p.m. and comped.

there and some sloper on toth sides of duide with "prouppl"

plants : Conthoung down the last side, som field of coats? at

13,600'. at 12,600 ft. encoupture and clerry. Chief crop from

13,000 down to 11,000 or less was wheat, which was refre and
being formested. Much the shing by driving open and busrown

round t round on helps of it. at 12,300 pt (see photo) and ever

hopen the general aspect is so high south trees of several kinds,

broken, weeks overlas Rumep, grain, et that I no bringer

consider it attiflance. I feel that perhaps the limit to attiflance

should be about 12,500 and said side. Perhaps 11,500 on the

mests First com seen at 12,100 ft, considerable more from

			•
		·	
			`

1. PE 17011

this, all rifes Poplars at 12,000; unlows slightly lower, and in small amounts down to 10, 950 pt. at 11,200 ft was a statch with the big year than out the showing tigur gran that me encounteed near formata. Jots of yellow Scriphularorea in bloom

Inthe way up the hill from Hvambation to Avancorare at dush

sama bat flying at 11,700's

May 3

moring clear. Some fost. By the light of day me found the the men from our stopping place on the volge top most impressive, but no match for the tremendour sweep to be seen from Trea Cruce, to which me drove after breakfast, Jungled footballs were polaring up through a labe of clouds, and for above all this stretching out over the lowlands mas a sea of cumulus clouds. The low clouds must have been at 3 or 4 thomas feet, the cumulus at 6 or 8 thomas d.

The rood from the hydrog locals to Tree Crocer runs along the ridge. Mostly grovey, but torques + patches of cloud forest, cycods, numerous pords also. Sphogrumin many places (but worthy dry Sphogrum), many "alpine" Howers including

and plust or so before Ties Cruces we som a hunter with gum, and just or me som him a big deer jumped up and ran down the step slope. Either a hummer white tail. This is the first man me have seen afield in her with a gum this trip.

attitude of Tree Cover 11,900ft.

Clouds thetheredafter bruch, then some stated reaching up to our level and flowing pasts Later the clouds lovered again and at night were a sea over the workeria.

		V		
				•
				,
				\
				•

1952

Putabout 25 trafes along bases of rocky on therops in this grass, some Lycopodia, toberous begoins etc. Mo sign. antopot 445 in grass, around stone-house ruins, edge of cloud forest, and in cloud forest, Evening clear.

May 4

When closed level only a few hundred feet below us. Teaps at 6:15 40°, but frost and ice skin on puddles. Mothing in my trops. ainto bod of little alsoclone, 2 Melannings, and one boy-tarted mice-organize ersumpin. The melanouse toth inthe forest. Temps noon 56°, suing.

after burch word down the resol about a simple to a place some a good forest. Put out about 35 traps in sphogum - cycobe along forest border. No remospe or sign. Cloud backs still over Jungle at 7 p.m., Went jorkstighting along the road. Som 2 pr. of green eyes possible deer, toth together, one bagies town other. Possible a liverend

and young.

May 5

Author in my trafes. More abodour in anita's. Hunted for pulme and joys and took nowies of some cloud forest. and a few tropical burds freding in the polder of cloud forest bright colors and all, even a woodfeeler, I think. The highest forest locks really broad-leaved trees but plenty of bearded bicherse, mon, ferne, bamboo, and sphagmun. Just below my traps, at about 11,500 pt, a really broad-respective is common. 5:45 dm - 35° 41/0 4:40 - 540 - 31% 6:30-41-53 6:30 12:30 - 55 38 9:45am 50 - 60% 45 - 45% 11:15 54- 56

Front + skin of ice in a.m., day all sunny, jungle still flanketed by clouds Movey a yorkelighted down to my traps after dark and sleft down there. Cloud bank lower in morning, interesting survise, but still



not much montained mustbo, Took partmerin cloud forest, then both up to Bus. One long-touted mouse and a spring-tout in my traps. Left about 11 a.m. for Pareartambo but devided to camp to set traps when we got down to 10,400.

Memerous fires visible around the hills (we soon 2 set by a boy with come) wishiste that buring plays a roll in the plant

succession around 12,000 ft.

On the way down noticed: block + white noney planere in the grassland near the tree Cruces tungl at 11,500 ft, abot a gran in bush of small train at 11,200 ft, quino 10,750 pt, everly two 10,600ft. On this and of the Tree Concer divide there is prochedly no cloud forests whereas on the other aid the below - monopprogram-cycod type jovest is common and appears to run on down note broad leaf forest, on this side the upper forest is a drier serubble kind (but bord to say bourmed is due to cutting). Over the comment trees looks gust has an alder, and down when we are vour comprouris along a norsy cold clear stream, ate of an afteret som-will aspect here is quite trypical desputs fresty nights , Birds see bore are huminers, grans, a white headed block dysper along stream, walters, and Zonotrehia. (Jeeding young). Very little cultivation and very few people along the way down from the cruces, although more cultivator on the other ade of the rally of the Ro Paveortante Supersingly little grazing of Tres Comer considering four lush the grass looks author both put out traps here worthy in brushy

		,
		•

Jude. Jorhhyhting from 8 to 9:30 (woon alwast full) som one small mouse and an a grassy slope, af deer. Shot it an Odocouleur, not known. also saw a bat while stocktything the local endrains say only one kind of deer have. Day clear but sun geta into this couyon late and leves at 2 pm, Used to be a samuelwhere we are compete Trafts foir. 6:15-34° frost 11:00-59°-46% 5:15-50°-68% 70 7:30-37° frost 11:35-62-37 9:00-40°-74% 8:30-45-88% 2:30-60-41 6:00am33-89 Skinned deer etc. Kofordravined in p. m. Fairly good flight of late at dusta cool got a small Mujota? rigorous? May 8 Fairly good trep catch. geft about 8 for Cugar etc. Road greadown to Parentambo St 9600, then up to the Parentambo - Huamonto pass 12,950ft. Chinoa as bour as 9600 at " The big bean plants from Powerlands ufto 11 500. The pour is then altitlow but quite dry shollow-sould, rather from looking, chola contra at 9900 ft. Stapped to later preteries of Deep folds on my down to Hnambeto. Those photoed are not the stepest just hoppened to have people dryging politice. Some girch stoffing in Congro, then all morning winding down into the aparriore Canyon. Become quite Copier - if dry lafore the bollom at 6500ft. Coming down with this congon we everentered sugar card as Lighes 8000 place Caño brava. Consideralle contra + thomy send. Level with the greats at the follow, themp the other side with views of goycous som - coffee. at 12,100 were particle bushes, collectora, some trees. at 12,800 ft still bushes, posture, colorado yellow doises, not red

	•		
		•	
			· ·

atheren. Then down the long zig-zog to along, awaing there about 5 pm. Pretty good forest in place on this growt at 11,000 ft, and borrows with pathy good states of fruit in aborrow at 8300 ft. Then down the soll further in the deale too compat 6250 ft in thom serve of peoples trees, century plants, about in his charps, around tree with white morning glow planers. Some belove ato an bonder, but definitely dry. Let out about 30 trafa by monty it.

May 10 Temport 6:00 am. 60. The ine in my traps - 2 kinds of arygony I thinks. Jeft early to durch up to the allegland, but the road get very gradually uft to congoind to Rio Parhachara, nostly then respective, about of organ pape coeling etc. Court suyor cove. Som croupbaga at 6500 in thom semb-coctus, and carl shot one at 7100ft. Lugar come as high as \$500 ft. Coulabot a torrent durk at 7100 ft and Some at 11,400 ft. Luch at 8000ft. with only a few grate (wang at 6250 where spent the wight). at 10,700 ft. in the garge not wany bushes, peffer trees, seatch from, spanisherous. at 11,300 Hoo wore pepper trees but numerous other buster + swallters, also a few green thom Juster has those at bounder. Compedet 4:30 at 11,700 ft, where bushes are thering out, a few Polylefinis - looking trees, some contries, but defentely or touch of attiflers due to presence of tota (quadrugular and ? Boccaris:) and philises. Port out about 35 trafts before

in obovery bod her out hunting surly parrotonic a

	**
en y	
	· .

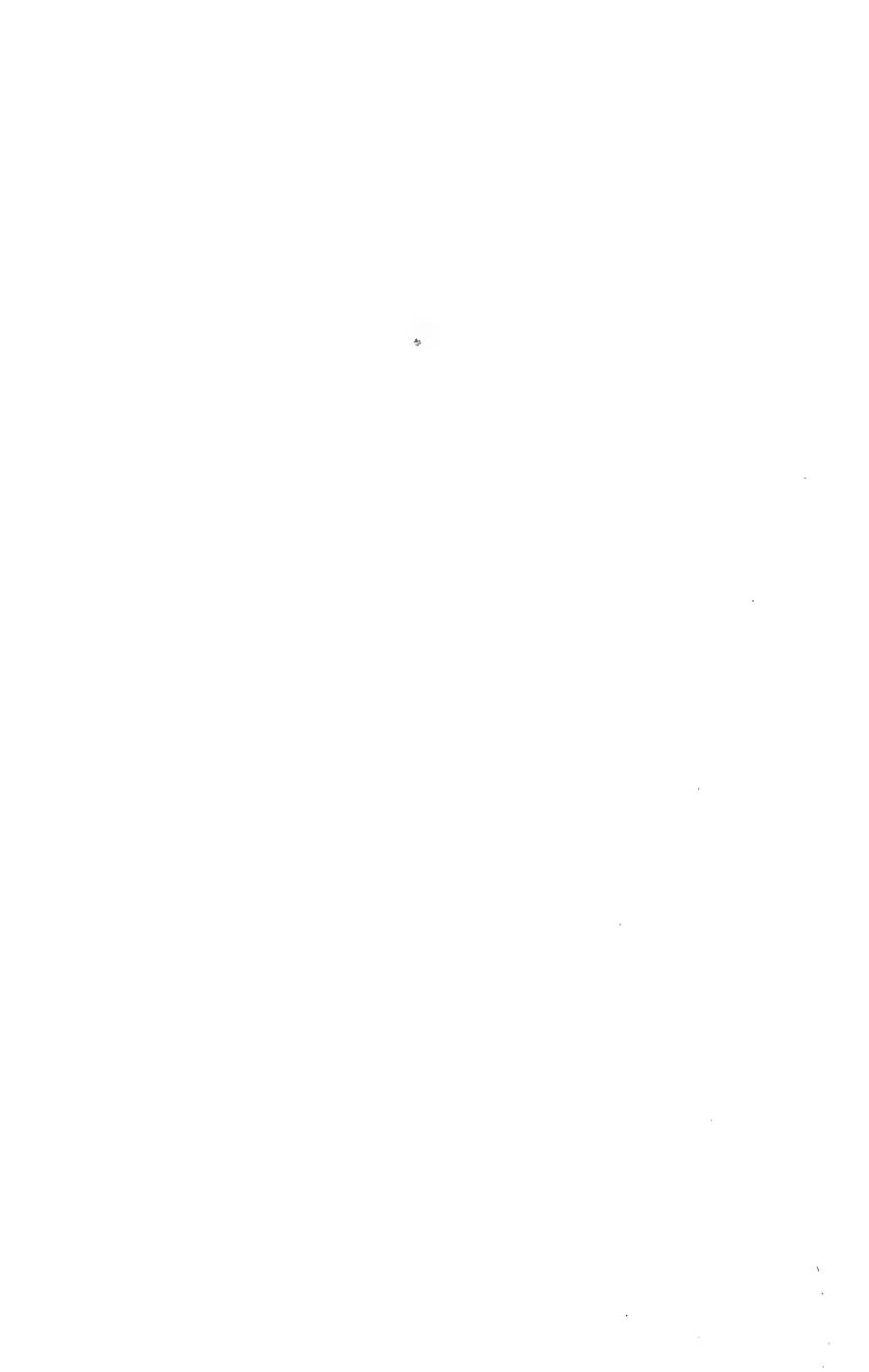
2 birds of deer, a "Cerwa" at high benefit as we as way as 6 or of brushes to the borne.

May 11 akodoms in my trops. After brokfort climbed points the altiflower, at 12,300 ft. ich, tola, and some lowland shrubs. at 13,000 ft. worthy ich, some tolo, lowland shrubs, and ground browneloids. Some broggard at 14,000 and 14,600 ft, minimas 13,700. above the iche instead of coming to Festives artifly a you come to solid truly, green, made up of the Mothers great Closely, reflect by alsocess ate) other short grasses, a drive of Pyerofoly Chim and an insidious little spring plant. Mumerous Distriction changle, but no big yareta leads. What yareta there is softer than regular, shallower.

complete at 14,650 ft. on a side rood among numerous volunic-rocky slopes trufy grasses, seeps. Heavily grazed. A few local areas of tota (a fleshy soge, brigger to and more skind-like odor than the Purowys soge). I put trafts along lottom of a low diff. Som Turamotia traftles.

Moy 12 6 Phylatic pietre in my treps, Other lines had pietres, plane Chichellula and Jalekin. At damm 3 or 4 granfs of Twantis were calling. Samone two and shot a 4 from it with big atretic following. 4:00 - 49° - 379, 6:00 - 30° 11:00 - 45° - 519, 4:00 - 49° - 379, 7 - 340 12 - 49 - 49° 4:50 - 45° - 397. 7:30 - 35° - 62 9:35 - 41 - 59 3:15 - 53 - 35

Probed up my trops and set for at the bottom of polisade across the valley. Sood rocks, smelly sage, and a spring burch grass something lifes Festives on the lay les but defeat



Way 13 My traffs not touched. No timewours calling in worning. Drive to 35 lam. ENE Rugnio, 14,600ft. Much of the drive across a boulder strem painfra growing westly to Nothers bundigram, tille grozed, but some struttet tota rydeny youghylun, to. Scattled shollow ponds. Many viewen In some places viscachas living among boulders on the flat pampa. camped on rolling pampa- nothuragrans, 2 - web burch grass, Przerofskylum, a little tota wydunard Funomys sage. Set 35 traps in rocky talin. 5:45/a.m. - 240-6870 10:10-45°-05070 8:15 - 35 -69 10:40-48 - 48 May 14 Temp. 5:45 a.m. 26°. In my trype I chrony, I Ph. darwii, 1 Ph- prities, Notisairon colling although some called last every . Disto 10:30 a.m. 46° Prone own viena portpo + lakes. Movies of healtatas + coats. Campred on a soldle at 13,500ft 15 km. NE Rypur. Passed consollrable lufamo in floor at 13, 800 ft. at 13,700 ft. considerable fleshing Service and the gradesignare in brown but traps around a coval with much blooming fleshy deneces, and a few trips along rood wolk ver flasly severio. Many thotogradar

charps about breat high.

While retvening a hands from a drep sunless campon found considerable ice at the bottom get - at 5:30 p. c. .

May (5 terry at 6:00 a.m. 35° some frost time my trafes sunt matter Phyllotic friction and some abordon bohin, 2 Phyllotis dorum, and one zelsbirg of the no-white-red
vered sorety.

ven comp in lugh ichn and quodrangulare. Some ichn

Drove down to Prymio past wrighted grain fields,

		•		
ţ,				`

tetween folds. Much lugaine, and composite bushes.

Comped beyond brain on the good up to the alliphus
ogain, 1,500ft. a bushy terrain with numerouse longle
coeti, bourt green thombush, asters and other bushes,
forme gracey slypes. but out about 30 traph along a
stone mall though this stuff, some clamps of bushes
10 pet tall, cardelaba joint coeti 10 feet also.

Temp. 5:45 a.m. 45°, but some frost inplace. my treps

May 16 Temps. 5:45 a.m. 45°, but some frost inplaces. buy trefa with about 5 absordon bolimensis, 2 Phyllotie, several Arrang empty, 3 of the mice eaten.

Drove to Magica. The road climbs bock anto grassy altiplano with vicina the at about \$3,500pt, then shops down to Magica (2500 t). Som vicinas in gran as low as 12,400ft, Abgliffis between 13 + 12,000, noghe a little lower. Mot bod sprinkling of grans down to about 10,000 pt. where the big of tree coutine starts then grodvally driminishing regetation are you get lowers some regetation all the way down to the Magica Valley, no competition have that as on the Town road. Motherstop were "presta "of a small bar tree (willy sup, cluster of seed produce at endary branches, no loves). Cotton in bloom and represent prompter, no loves). Cotton in bloom and represent for a flooring cutton fields. Then trodd grods with Mafords and parter.

Comped on desert a few rinds worth of Magica

	ajir		·
u).			
			١
	₹°.		
	·		

dray 17

5 miles N. Mayer, 2500 ft. Temp. 6 a.m. 57°. ainto aurile in mieddod wight to see a house moure running around the laod of our lad. Cought it. This is very barrage strong desert (see moine) although a few day springs of an animal could be found in a reachy gulley. The vegetation of the Way so rolley was about 3 miles away and about 2 mile in other direction was a dry work with Ephdrablue bushes. also seen at own compate were small withs (discovered by turing over stones), afriders (closurder stones), a large green leatle (moder slepping bog possibly a stone-away), and a small humaginist come at 7 a.m. tormestight the red striping on the burs. Heard late during the night

Steppet to wash at a stream about 25 ban NW Mag co, 1700 ft.

Munerous willows, acair - the trung Inshes, a small delicate caire bears. A for and very large fever squested on bridge, Stepped for wight in sandy desert about 10 mi - N Carrett. Down the larger ruchs and Browelock, some in bloom. They are quite rootless, probably defend on for. Munerous mouse truths, fot?, and broad truths. Many moths come to leaten often doub. Leveral cormonant sheltone lying about. Put out about 20 as 5.

my trefs. Took movie of the worker broushods

to pp 3699

de ment 199

de ment 199

de ment 199

SPECIES ACCOUNTS BIRDS

			•
•			

Decide Everyone so for agrees that reating is over and that young chicks are abroad. So bulger suys they go into the hills to vest, that they lay up to 18 eggs, and that one eggs is used as food by the hateting young. He says they are much hunted for plumes and the eggs are sawget & pold for food.

Jon. To Paropa Visionha. Mature soon Neas come down from hills to feed on pumps at 3 or 4 a.m. Est little globular and prints of Distribuia. Mests in Lept april 15 Shot 2 of a land of 6 Juding alread among alpresses bickering? on the Paropa de Capazo. The rear were doing some buckering? arroughtermalver. One (dubler whose) a revite tester about

30 × 8 m, probably not breeding. Roundworms + topenorms, Stownsh with coarse grass, "bulls"; small plants etc. Feces

april 20 Pampade Hvontine, 14,500'. While stoffed for lunch ainto spied a level of 13 out outhe pampa near alforers. an hour or so later me took off after them in Bus and approvaled to less than (00 gyla closer than this and they would run, some of their zigzogging with conspicious droffeing of the wings, stoing the plumes.

Took wines + stille. Trade in sord while walking were 16 "opart. While runing 47" worth, some 56, and one 60."



P. PEARSON 1951-1952 Decig Shot se today at Kin 57 west of Priva, 13, 300 gt. Schn grass hills. There were a pair of adults and 3 or Twore half-grown young These think are the middle orged allflows twown, swaller than Trinumotia but large. The of was sprouting ven feathers over much of berborn and bod onamy or a up to 4 m. No broad potels, but sound strin. Decro Shot zat Am 101 east of arguipo at 13,700ft, They were the only 2 seen, this is very close to the spot where me bought a trouvatro from a boy a few days ago. He probably got his a little kyler. Hard wet soon at time Dec 29 center flooded one, probably this species, on the helless of treopoleo, 13,900 pt, mostly tolo (quodragulare) with mitture of bunch gross. Jan 6. Several were feeding in the new barber field below the Howards Jan? That or of there, a q; no broadpatch but one crange pebile 8 min drain, net 4 mm, andpossible a CL. Ondert large, Bodly + some other sud pod in storrock Feb. 3 Som 2 pairs and a single multin 1 the mile about 15 lan south of Magoerna, 13, 200 ft. they were on or rear the best good river flato but near the lills. This is t estro country, have the species vises above rehn. The single was a of both of free loying. Feb. 4 Seeppenner Fil. 6 Flushed one at Ontone. It flew up rather stoops Pelado for about 4 vydry then landed. Som bard of 5 st km. 104 from Puro, 14 300ft. 4 secured smaller than 10ther. and 3lot 2 small over - see dissection.

				. 4
			•	
			•	
	₹	,		
				1
•				

nothefrota (cont)

Febr 3 min - W. Vilgue, 13,30 oft. Whele of soir fleding from 8 to 10:30 on the wether volley floor near compo Duringthis time they travelled worth about 150 to 200 rycle and back ogain 500175 your before I has ten due to indraine passing while I had by browlers on some reachy wothers. The Mattoproctor permed quite placed + unhistrated, bolling unch bloodpain of guines-four grazing. For 2 2 des they fed almost continuously . The prosiller one, unthant west, led the may and we followed by the boys one with creat, nearly 3 to 10 feet apart. The Occasionally the larges approached about to control wherefor the sucher would run a four yarde away. They fed most on bright green paters. a pair of caracter status then theyers wear tem for part of the time, and once at a distance of about 20 yarde to thomas ran from them. There not also present a pair of what the to be young carearas. Howalate to be planer not praway. The zz he was always al feeling convolley, no affairent duction, and a few short periods of preinings feather fluffing in the sun & the 21 In primary of our stay at 3 km. W. of Velyne. When flushed the of +9 give a series of whathe squeele similar to the of ring-nederla formand but more precing, lifter petaled. They also have a call note (assembly or mot-calling think) that so a single chief remunerent of the first chiefs of the robinaloun call this wayte given every few seconds, 2 or 3 times a mount, or only once:

On tel. 20 in morning flushed + shot at of a rest of 6 brile colored shing argues under a large richer clump at the edge of the volley floor. The orest more finished than that of the thours, grass implied circularly, a dozen or so feathers sprinkled around thest not maille

		,		
	·\$ 2°			*
•				
				1

nothoproctor (cont.)

from above. The thraled of the for 2 Wolffronta also about 50 yards away at the same time . Remarks (and workled) west for rest of day and at 7:30 p.m., but no other bride seen washey. about 10 a.m. a lone bird mas feeding & freeling about 40 yds. away. Wounded it but it escaped. Then looked for rest and found that indian had servoured eggs as well as our stone worker!

Feb. 23 Hunting unth (Kofords to arguipo Puro Sam. 100. Collected one of and 4 (egg in andwest) among Feature and some ichn (13, 800 ft) and heard Transatio about (00 ft) affer higher an a facing held that was rockies.

Feb. 25 82 km. W. Puno, 14, avoft. Haard the robin-like chiefe near him at & a.m. and some pair of perdis across stream from bus feeding on to wet green flat. Watched for bour or more. as before one of the pour was slightly larger, more of crest on head, greger less brown, and seemed to follow the other one around a will coll this large one the of. While watching the of this pair he started to sun and I some tat be was classing another tenamon. after about 10-15 yards of very rapped pursuit during which our of was only a jood or two behind the other bird took off with screeches and flew away. Our o' regard the f. Foll we noticed that there were 2 94? present, as well as the of, all unthin recognizing distance of each other, but no fights. The I soon wordled upshill 100 yords and sat and severed for 15 minter or word. The other Evida then wordlied up the hill for about 200 yards, then also stopped + preened. about 3:30 in afternoon apair mere again on the flats near the lone - worthy walking in the gran, and not much

\cdot	
	,

Nothofrocta (cont.)

feeding. The of taking lead, the of Jollains a few feet or yards behind. Occasionally intende came close she want pasture by presenting her posterior, rowing it, and shifting out the rump feathers. This gave a bright buff deapplay unth 2 conspound block patches on either side of the arms. The effect was to frighter the of away a few feet. after a time this pour wardled up the hill 50 yds and stood around. They then returned rather quickly to the flat and shortly after 2 tenomous mode short, serelebers flights acrave the ruer onto the flat. after standing attle for about a runnite these started through the grass toward the orginal pair, fast toch of them unto suddenly 2 transmere chasing bock of forth then the graces, totalling about 25 yde before one touts of sevecting and landed about 25 opde away. This one and one other then disaffered (most babely the trans-runer pour) being 2 on the flats. These contained to feed ste. On one occasion when they were about 4 feet apart, the 4? ron to the of as though signally he squatted, and she stood ontop of him. He squatted quetty for about minde with her, on top of him; she hereatedly zerled her ring tops. after happying of they fed some overe and then walked ratte refordly 200 to yoke uphall where they disappeared together at 5 pm.

the flicker or robin coll (persistently). He stood still about 10 minutes (except for votating) guing a chief about each 10 seconds. Nech fleted boilst down at each chiefs. Occasional other chiefs from up hill didn't bother him. Ofthe about 10

				,
	•			
		ı		
;				

perhaps be had seen me) and dreatpeared in a tall grace (ported about 40 yards away, a boilf-munite later a perdis flum out of this patch, landed 20 yards away, walked affidly applied out of sight. Perhaps 10 seconds after this one flum, a second seen out of the patch as landed not far from where the original hid had been chapping. Perhaps a of change off another ??

Feb. 26 Worked a point from 8 & 9 a.m. at east end of our colley. They spend all of the time feeding on 2 acceptately of "Worthurs green" up on the north slope. again are were buffer than other. The "3" shood up on a rock accessorably. Mostly follow-feeding activity, but on one occasion one row 3 ft. obsed + agrated, the other followed unmediately and stelffed on top of the first. This top one stood, foreign in some directions as lower, for about 1 minutes, twithing his wings much of this time. The bottomfore stand occasionally, which received this time. The bottomfore stand occasionally, which received the stood foreign earlother for 2 or 3 minutes, there are started to premi and friendly book to follow-feeding. Profiles.

about 2:30 spotted 2 on flat near bur. a third, & a's, then affected near the steam of bur and feel over toward the pair, which were follow-feeding. They seemed to avoid eachother for a time althoughood, and one of south of very the foot of the hell, making his way of ward where he findly drippen about 200 gar ups a pair (the pair?) then work their way whethat together, but not as for. They had yust

					•
		•			
					V
•	•			·	

Nothoperator (cont.)

gotten well up the hell when a 4 appeared wear the base of the hell and, while calling, node her way out into the area from which the others had just left. Kerhafer in response to her calling, a of appeared from the one that had just left with a collect on the calling then sand. He peped her with when College, anther 8" then was discovered out out to flat out on the flat and found ber, inherenfrom the calling stepped, also, a o come down the holl to the edge of the flat, possibly the same one that lood just your expents another ? When the confidence and across the flood be did not fallow, but went fools up the half. The could on the fots were feed - following intentty, the o Jollaning closely. The & pastwed severattioner by raising rump toward of and spreading rump portless. This either fraktered him or coursed vo response. Eventrally unthout appearent pretumeranes, the "8" squatted and the browner, less created, leading of stood on tops of hom, formy same duestioner, week stretched upsevard. Thus for about I munte. Upon diamounting of thinks the "4" went over his lead and postured in front of him, but wearfulity was not good. They then separated by about 5 yards, preened, jed, and generally ignored eachother, but did not separate. Concerning the ceal, have beard at at west times of doughoft exect works noon, mener by pairs, only by singles. Short of giving it at Vilgueard som what we are colling a q give it today. Howas graged right througho pair today and were

•				
			,	
•				

Nothofrecta (cont.)

almost groved. On one oceaning when a blance walked respectly directly at one of a courtery pair, the hid tools of (without sereceles), flew about 10 ft up in the oir and landed 10 year away. Obviously not grotty always. The shephered that we bookafeferoomled this morning cause book at 4pm and said he had found a vest with reggs, but no mother seem went with him and own next wither robust, spreading your cloud of the coarse grun speeces. about half-waying a hill along a runder, 6 eggs which felt worm. Meet rother substantial, many feathers, shelthed from about by the group facility. Went for at 5 but no bird son.

Feb 27 Bird on rest at 6 a.m.

at 8 am hard calling at 'lem above comp. Attough calling war close to me, could not beate it. at prist every of second then sounds, however, a pain commy down the hell nother rapidly toward the sound on the flot, o'in front "q" about 5-10 year behind. "o' mas making a gust diefe every few arounds. Calling stoppeds when they reads the flat and the "intuined to the q". Some pursuit, a few mistoness of posturing by 4. Trick they was least to men, once for a couple of seconds behind a groves clamp during which there was a trap fluery of actually a groves clamp during which there was a book for grown for some sort. Shortly after, they had lost interest in courtships and for no approant reason froze "the about 5 years about for 15 summers. Then flest them.

In the afternoon 2 os: considering then ment book up the

hill- One of them called most of theme and formed another up the hill-

		•
	·	
	ζ.	` .
·r		

P. PEARSON . 1952

Nothofsroota (cont-)

Feb 28. Bird was not an west at 7 am. (autobal seen it base at 5/p.m. last night and bod not seen it return by darks 6:30) but aggs were completely concred with feathers and felt shightly moren. Watched till 7:45, no bird, but was on rest at noon.

Up rood again to some place as yesterday, watched one hid feel and coll for about 100 yds along the flat, perhafer

his feed and coll for about 100 yds along the flot, perhaps 15 minutes. Two other hide called further away but none should op. Possibly tose up on the hill could soo me unlessed the the left I it

Colling is much londerwhen bid faces you. also, the rack motion has a short recoil, it is almost a flocks. How now beard colling even at moon, here all daylight hours. about 3 prominteled a pair feeding along a seguria and on flats just the site of lam. 132. Sain no courting antes; in fact, "I" was calling much of the time, but nevertheless followed q. She followed him when he was in lead.

Fornstes before here "8" should be & (see below)

To o o o o o o o o o o o o o

Feb. 29

Went up the rood to ken 132 at 7. Heard colling but couldn't breate. Went both at q beard colling, and found a poin coming drogoverly down hill to flate - same route as the fairs yesterday aftersoon probably same pair. By created & was in the bod, colling occasionally. Watched for 3 or 4 minutes and same no postwing by either of or 4. They when the quas about

: '			
	,		
			:
			,

10 feet about of the male and quitepossely and of sight the or ran up as though sent for and stood on her bock. I dra not se at what fourt she squatted and would hear no noise (but twas 100 yds away and aaross vonay stream). While he war on tip of her, I that ded crawled about 20 yds dozen and shot top but with . 22. He scooted about 10 feet and crowded, booking possibly wounded. The stood up, somed around, then walked a few yorks into to grass. Decoded to make sured the of, so shot hismogoni, followed by flattering + Chroshing and collapse = about 2 mentes later beard colling verily. Soon descovered the of standing on a rockahant 5 gas from the deging of the was walning had motions & soft calle, but not love calle. after about 2 minutes of the Ishot at her and missed. The was not greatly observed, but started slowly fell. Two were shots and theolow her rung, upon which she scouled up 10 yde or so and had. When I flushed her she did somerate in the air. The had large egy in andet vorly to by (shellnot hard, no pregnent) and at least 2 collegers fallicles. that had penis partly protrading through closes.

To summing and help stroutter out set difficilty: 4 seems to be bigger, raise creat more than of wardly less with brown. She takes the lead in feeding, does most of the rolin-chip calling, defende the textion, of their is one, and closes away other females, but tolerates wow than one or near her. The or follows along as the 4 feeds, postures accessfully by presenting this runnif and fluffing its downing feathers, but we have not seen this have any mellowing effect on the 4. In fact sonationes it seems to frighten her.

			\
			·

PEARSON 1952

nolfgruto (conti)

Occasionally she squatrand allows him to stand on topof her for a minute or more, but we know not seen this lead to copulation yet, at Veryor a of was shot while calling in the late afternoon.

Checked next 1 at noon. No hirdon. Eggs not norm, not cold. Shodi temp. 57?

see reft for

. *

mothofronta (cont.)

Made 3 Morning mostly cloudy. at 8 saw 1 tinsuron fooding on Rato Dyds dove Bus. It chimbedhill almost at ance for 50 yours, preening occasionally, then atopped 5 yels from where a quassiling on the ground next to grass climps she was strong but preening; soon stood up, preend some more, then welled rother directly down to flots. about when she reached facts colling started, but probably not byder. She pedada from times but then started uptill. 50 yels up she started to run down and sudeways rapidly because another q? had come from about to dose her. The pist q, thinks, then took off with squeeling and flew toward bus. The second q soon started calling (again?) and was grised by a ?o? - possibly the same of as had been associating until the 1st q. The poin then fed further up hill.

conto worked restfrom 9-11 and foods own at 11. Bird left
rest at 11:15 and Jed at last 200 opds aide - and up hild.

No colling. Had not men it return by 1:20 when ainter organic
touthouse. (Roporh come at 3:30 and we checked new
then and found bird on it although to methe Avor I had
prent return. At use off rest at 5, eggs not commed.

Temple at 1 housing) when hird was probably off rest 56.

Would at 11:30 ment up to next noboly home, eggs concerd with
fothers- and rigget up mirror to feet from west to be able
to see in from our blind. at 12:40, after some colling,
fiel come bock. It appended to southin a few water of
west, but was obviously noviced, pumped feed of and down,
melhed around returned, ato, but distribute onto next
after approaching the rest 6 times, it returns up the



P. PEARTON 1952

> ruly and me left blind, I returned at 2: 30 to find it 2 feet from the rest, still sumply land up and down and colling. after about 5 minutes it returned under a years Champ shout 25 yours away Then Cremont the minor. at 4p.m., and beary rain snow, apperdix fed for about Holes on the flat, when she findly startlet up the hill, she was chosen by another and finally few screaming each. the chosen then ran in some direction for about 50 yell instead of returning of hell to where he lourched his attack. Then he started wallaingbrock slowly with thest him . Swan patches accumulated on the bock of the feeding one. Much 5 lay-sow organs in a , went up to rest at 6:15, buil moson. Watered to 7:15 but it dole theore, dirother une colling within 50 yords, and hard on rest called a few tiver. Bud also was on vest at 11:30. another Birdon slope access from comp called all afternoon until dush. March 6 Bird was off rest at 11:40 a.m, returned at 12:20. Was off at 3:40, bod not returned by 4:30, Sama chase that we think was between 2 males, also a chase runding 3 birds on the east side of the road on the painter. Foolsed black a 4 made a short flyht, then closed another had until it fleer. Berd mason vest at 7 a.m. Squited it with the dye from syrings while I was on rest: PA ddi't flush. Maroff rest at 5:30, come bock at q:30. Went all at 10:50, bock at 12:15. Hail in und afterwoon. Then left at

5:00, bock at 6:00, dwoller bird maspipinger

	•
	\
· · ·	

motherwater (cont)

before the paint left, while it was gone, and after it returned. The piping was unthin 50 yards of the rest. Before the forest left the next it pushed feathers over the eggs with its but!

yesterday the eggs were arround in some shape. The evening feeding lasted ! How.

at the end of this time the weather was raw, temp-390.

Shot a love of high upon the hill. She was calling vigorously, a slightly more drawn-out, decending all than wast.

March 8 Up to rest at 6:20 a.m. Birdleft at 7:45 but could not see if it were worked one. It walked to top of ridge, then flew with a few squeels down the guller about 150 yds. For return etc. see AKP notes. Began watching organ at 3:30/2 m. Bird left at 4:00 p.m. and malled down gulley to base of opposite hell about 200 yds from vest another bird bod hear calling for about 5 muntes when this one left vest; the colling soon stofffed, Mestery hird shook feathers a few time 50 year from next, then stopped to puer for 5 minutes when 200 year from vest. Then blast her, fiter beard flight squeet inthat devetor. When she left west medlerhood just clouded up, temp. in chump of grow similarto rest 12. at 5:00 champs and air tempmere 8°, wirdy. Went down to vest at 5:00 to steelegg. allegy covered by feather except i which was partly exposed in center west. Published hole in this one and its temps was 222°C. Temps under rest clump 8: frieders looting thes just getting down - linge eyes. Inould guess another 5-7 days to go. Parent returned



1952

wolfespricto (cont.)

about missing sogs. Temp of cin6? Thus it bod her gove to his with temps falling from 12° to 6°, no sun, considerable winds.

Went book of q: 30 pm (temp-38) and squirted red worter coloron left shoulder of hid on rest - by fleshight from 6 ft. It Bird man setting quite for softetwee couldn't see any purple makings on recker chest. Size of eng: 39455.

World. at next at 10:30 red bird on rest, at 10:50 was not on, red bird returned at 12:15. Met on at 3:55, returned between 4:45 and 5:00. Cold windy + apprintely derived this time. Watched pair on flats from his at 3:00. Some display and 1 "wounting." Eventually they retreated before a squadron of sheep, then both new flushed by an indrin.

Much 9

Hunted with Carlin worwing. Flushed a pair near the humaghied care and Carl shot of. The bod no brood path, egg in ourdert, 401 more Carpena lute, meighed 705 g. or 1.5 lbs.

watching in afternoon soon; flush with squaller a few feet in front of shoop, another pair retreated in front of advancing sheep.

Myong watched next and sow red hird fly unthout squeaks down to some feeding area. Easily windle with red not toward gon, Assaffeer when other side presented. Evoing cher, full worn.

1 of talked from fleigh at waterfall drove 7:30 to 10:30

Mark10 Watabed from blied at waterfall from 7:30 to 10:30.

are pain appeared in the green patch but split up, the q?

going down toward flots, the o's storying near the flind. Ofthe about 20 minutes he started calling to short call. Door after a softer call answerd from the line-green part when the 4? had returned. But then moved off to the left hart was together. at 3:25 p.m. a love of a come out onto flow

 P. PEARSON 1952

green to pot and ped until 5 alone, For a short trungane out to call (chip). I her after sundown would then sponse grows, over boxed rock and disaffrenced our top of hells " ford calling from these shortly thereafter. I have inch calling from below the green plus a squalle in which one hid gave a series of soften squared than the flight squalle without actually taking off. Much calling from this region with 5:45 and pulably laters. after squallown to be present so certainly a time of which calling and frequent squalles.

Mark 11

Mothsprocto Leve (14, 200pt), Huntet in worning and alot if a pair below course. Watched over waterfall with 4 during in atternoon, but sow nove. Raised out.

March 12 watabelieth of druing at notefall in a.m. One pair should up, the & calling boundly. Fed closely, then I ran off referly whout 20 yell and proceed whileshe called. She use within easy sight of the duming but paid no attention (when calling now abouted by dump). Then she wantered off downhill and he bock towards where they came from.

of downholl and he lock towards where they come from

Went up to rest at 3:55pm, swing. Her Red bird was on seat, focing rephill. But seem of during up hill from next but not markle from rest. Bird left next at 4:35, no calling at that time; quite red suppose still. He walked across ridge about 50 yds, then stopped to preen, calling occasionally. a 4 came hurging up out of gridsh beyord, the out hat passed him in general

			,
			,
			\
	•		

duetor of drumy, forably as a result of his continued calling she doubled bock toward him, then orgain toward driving, then finally books to red hid and Jones him, the most still preemy and pard little attention to her as she busied around him, usually a fem feit man. The frequently squatted for son 10 seconds within a few feet of him usually focus him. The squattery frequently climaged a run of several feet. He navally igroved her, although once he postweet by Phyling his feathers. after 2 to 5 minutes of this favoring by the of, he started finding up the rotge, she followed closely squatting there prequently and claworing for attentions. after her munter a transon approached them from uphall, the of soon shotted it and gave chase. the opphilloure fivally flew (with squealings) and landed 20 or 30 yels away, whereupon the 9 returned to the red of the of almost unreducted pastures, first book towards her, then tant; she squattled, and he clumbed on as me have seen on other occasions. Because of his red point it was easy to long them straight, He stood exect, freing somodirector as the occasionally trading, which man but hele as much attempts to last his habite when she moved. After about the Driving this time there was vopossible closed contact. after about 1 remote, there was a shuffling during which his rung was bent down over her and thorough have how closeal contact testing about I second, He returned to fareling and feeling while she removed squatting for

			,
			٠.

notherate (cont)

a short time until she spied the uphill travour organ, which was watching them from outop of a rock about 15 yds away. She chosed it away and returned. During subsequent feeding of scherol munites the femall frequently ran from the reall, who theatered here unden ske got too close. Then both transvers for some reason (perhaps he chaning her any?) ron or chased up hell for at least 20 yds and mere lost to mem for a few munter, One, however, soon started colling from on tots of a rock. Started with the wellow, intright coll, then gradeally changed to to storp call. It then the was the red of, but it way fare her the uphall hind. It was soon answered referredly by the q, who was downkill some 3000 to your afterseveral munter of calling the rock high Jumpel down into the grass of tolk out of right, colling only occurrently, after 5 country the red of squeled and flew from uphall to apoint about 30 yds about the west. He way have flour whentenly on han pursued by the uphall hand. The quarante calling about 40 yds broad the west. He walked to the vest in about 20 mismates, work a few feathers, set down, collidorel, then was quiet (5:40). The q continued to call and more about we though bolainfor someone. at ove time she poised 15 years from the ordinary but paid watherhoon, when a bird (the bird?) rephillstortet colling she word quickly up towards it, finally saint and

		,
		•

Mothybroita (cont.)

game chase. It should her In disting, and she ended up uphill from it, still culting; Turis it started colling orgain, and both times she would referred to sound but down the last call. Out 6:00, it was alwast deals and she stoffed calling. Conclusions: OThe of has done all the wentating for the past several days. (2) tother and call. (3) the mentating of the past several days. (2) tother and call. (3) the mentation for the past several days. (2) tother and call. (3) the mentation formed. (4) thering such trysta the 4 closes introduce.

(6) Chould contact is probably work fresh at the end of treding: Mark 14 Part 2 durings on flat in a.m. and wanted in protes

blisd, but nothers and 3:40 pm. Add hid on Much calling by at least 3 other birds, worth, down hills after some time one hid passady the ridge beyond next about 25 yde from next. a few minites later a & come up the same route, calling steeding in a singletly desprove, most of the calle leing shoftly 2-fracted (her have). This hid stoffed on top of the ridge of speate (he next (20 yde away), did considered calling, peeled around as though she belonged there. When chipping started up hill (probably by the first had just passed up) that of started up after it to find fright she went the speak of started up after it to find from the next trade (boyards from the starting point, goyds from next). The furned and

startle tensites it with determination. The located

nothopeweto (cont.)

this bird after afew minutes, chased it rentil it flew squaling downhill, the while it was flying she ran after it for 150020 opda (bone seen others do this also). Then she walked slowly down its volge, still calling loudly, perhaps 8000 quyds from vest at 4:45 the red & left the rest steelthing and wood his way awar and downhill along his usual runts (but also in this one toward the calling of.). In 5 to 10 minutes, after be had chappened helly is crossing aguller, he joined the f, who we wiger called. Inthose courtery followed: when she approached him, he would fluff his pathers and sland his ground either focing her or locks toward her. The world respond by darting a few feet or yorks anow. Thenhowould stop posturing and feed away, interentpor she would follow and approved, to would posture etc. Her darlings were conspersions. Derry energed posturing theard truttering + squaking as tought I had the other day alst. With Both present for about I munter after a few muntes fathe disappend with grass being rocks and I saw him wo word. after about 5 months, bewere, a bud presumably to 4) energy from the green and nathed fairly superdly unttout colling toward the rest rado, foot her in galley but & few muster later the desproved did (puloly some one) apprecied on the roge officients (obna) the rest, colling oceasionally. Shortly orfler, colling came from down toern (mhere she book come

•			
			•

moltoproctor (cont.)

from). She havid bounded colling, but the otherwise som her coming, shitup, and ducked out of her way. The searched for it but didn't find it, then returned to the next ridge (her brequent return to this spot make It seem like the center of her territory: Shortly therefter the bird of well started calling, and she, also calling, Started replomared it. foother in the gloom. Red of returned to vist at 6:00 p.m. no sound. at 6:05 as dark settled both bids were calling stooling and ugarously, the uphill bird calling first, the 9 2 second later. They were about 60 yds affethe volge from the rest. In 2 hours this female wood 4 sorther against calling buds, one of tem at least 60 yds from home base, and while out one sorte met the rest of and probably copolated with him! at least 2 different birds were sorted against, set unavour, downt. During the courting today and day-hope yesterday, the creat war not greatly insendence,

March 15 to nest at 10:30 a. in to relieve ainto. Some calling ite. downhill from nest when first ownered. Red 3 returned at 11:15? Things for next holf hour way givet, surry, then left. Morning had been worth overcast, afternoon raised from 2-4, then cloudy-sprendly.

Vent both at 4:30 pm to where ant. Red of on west, local 4 downhill, calling, another baid up hill, calling, focal 4 wordhood up west volge and stopped above west, colling + presening. Did not seem interested in going after the hird colling about 50 yds forther up to volge.



mothefrector (cont)

at 4:50 the red of left the rest broking wet and bedryggled and with a featherstack to his fill which he survey with foot after several attempts to mufsent off on the grand goed I was calling from volge tops about 25 gds from rest. The red of Source, aired slightly downhill dragonally, walked 20 yards or so, then stopped to preen for about 300 4 months, forcal & did not see her although only 15 yels away. The red of did not som disturbed by the colling of, but definitely did not had towardlers after preening, the of continued dragovally downhill, and then was seen by the f, who started after her, When they met, the I fluffed + postured and the 4 dusted away about 5 yds. One or falt gave twittery-squaly sounds that tweed Kear 70 or 80 yds away. after her dwit, the fretuined, but the oran off, untaling a chose that lested 40 or 50 yds downhill. Mot a sell swell Level - Sown chase like the territory disporter, but much of it at a past run with wearings + stoops turns . The of finally gave her (and sol) the slife. When she realized this, she started calling again (and still hunting). For the next half hour she could and preeved vear whereth orelisted her which was perhaps 20 gds from the vest, at 5:35 she seemed to see or bear something upshall, and started at a run afterit. Went rufidly about 50 yds up the gulley helyout the rest, walsing wal, as on ather occaving a long som bare rocks skils. When she had your up about 50 yes she looked proggled, looked

			\ \ \ \

wolfferector (cont)

around for a few muniter, then started runing downhill again. I had seen and heard withings when she had retrained about 30 year, the red or tooks off unthe squellings and landed on my foce of the rest widge, but 30 year down from the rest, lite fed along for a munite or time toward the next, but apparently the fed followed his cause about for she found him. He was from her towards the top of the videy and gave her the slip, underesponshe started colling again. He worked contrained and about up the video from the rest, then books down to the rest at 5 :45. The & colling about 20 year below the rest. Californity got the inference that he was trying to everly out to west with the rest with he was trying to everly out to be sent without the 4 seeing him. The 4 then would off beyond the rest video, calling.

The rain seemed to have most off some of our coloring on the red ?, so ment bock at Tpm and gave him another spent of searlest water-coloren the left shoulder, was yest aring at vest 1 at 7:15 when how blew: the

Much 11 War just aring at vest 1 at 7:15 when how blew: to telegrafists from Tricopolo bod arried with veins of 2 nests.

Drove to Timespoleo, then accompanie by whoir over to ridges to the 2 nests. Med # 2 was discovered yesterday and bod 7 eggs. When we arind gam ±, to paret was witting.

Meet under a grass church among grass-tolor on offen lollaide about bolf way up. Mest # 3 mas about 300 yes around bollaide in walley between 2 green seeps, when grass-otolor. It was discovered day before yesterday in the morning about 50 clocks at which time a parent flew off when the indian was 20 yels away and at which

. . . ,

mothoferota (cont-)

tens here were 3 eggs. Today at q:30 there were the eggs, 3 meanered, convered by feathers. The indian soups that the more feathers, to later the stage of mentation. also soups I eggs lord every other day. The telegrafictor soups 24 day mentation.

Returned to next 1 at 11:60. Very ned of band just left next and woods work uninterrespected onen fatheast vitys, slightly about woods from next). at 11:15 a bird down at Vog girleys flow squatery and landed in V but did not affect to after it landed. Foolsand all next from 6 feet - eggs all covered, no sign of childs Returned at 12:45. Mo calling entre when she left or returned.

Went of again at 3:15, relevaed at 4:00 by AKP. Mo calling or activity during this time. And of on rest.

afternoon westly surroy but windy. Very little calling even late in afternoon.

March 17 Walked to Tincapolor to watch rests there. It awined 10:30 a.m., still 4 eggs no povent on nest #3. Built a stone blind nearby, finished about 1 p.m., started watching at 1:45. hotically no calling, beard two fly up the slope scart of vests west out at 3 to put 2 for trops for insurence and to cleck rest #2. Bird was on nestar. This next 400 yda from next #3. Two more flythe on slope east of rest at 3:30 but no calling. Some calling there at 3:45 and fath, at 4:30 a 82 mm feeding quietly on the cost Alefact 5 says from next. another land was calling at the time.

More calling until 6:00. Celd clear, + unity.

March 18 Visited next at 5:30 a.m., Mo bid on it (feary frost, and ice on partilles. Fut duly of futter thought dye on 3 of the eggs before to mark

Notophone (con)

4 oken de lago-if. Inblindat 5:45. Some calling than and until about 7:17, then quit. a call hard yesterday of this am goes: where - ar- rr-n-n, the rolled are being throater and of lower pital. at 8:40 apair appeared about 20 years begand the not (just the sol of for green sup. They were follow-feeling closely and quitty, the male setate and nothe level; the ferrall selden more than 3 lengths away, finte aesty, with considerably more had pumping. She was following constructions than others we have noted, but no overt set believes. No posturing or dasing by Jorg. 4 mide 2 Lot decto, but no again that I som. Wateled them until 9:20, during wollow time they were more how 35 yes from the next. at q=20 they displand with a gold only 15 yds larged the rost, but I din't see them come out. at 9:40 a timemon flem from 50-75 you up to east slope, Officet at 12:30, so take an hour out for level. Then guest with Colling started around 3:30. Saw nove, bowers. Visited next # 2 at 5:00. Teggs, warm, feather covered, 6 in resette will 1 ontof in conter, worm. Took the center one. Then book to next # 3 until 5:30 but nothing near it. Day almost all surry, like afterson mindy.

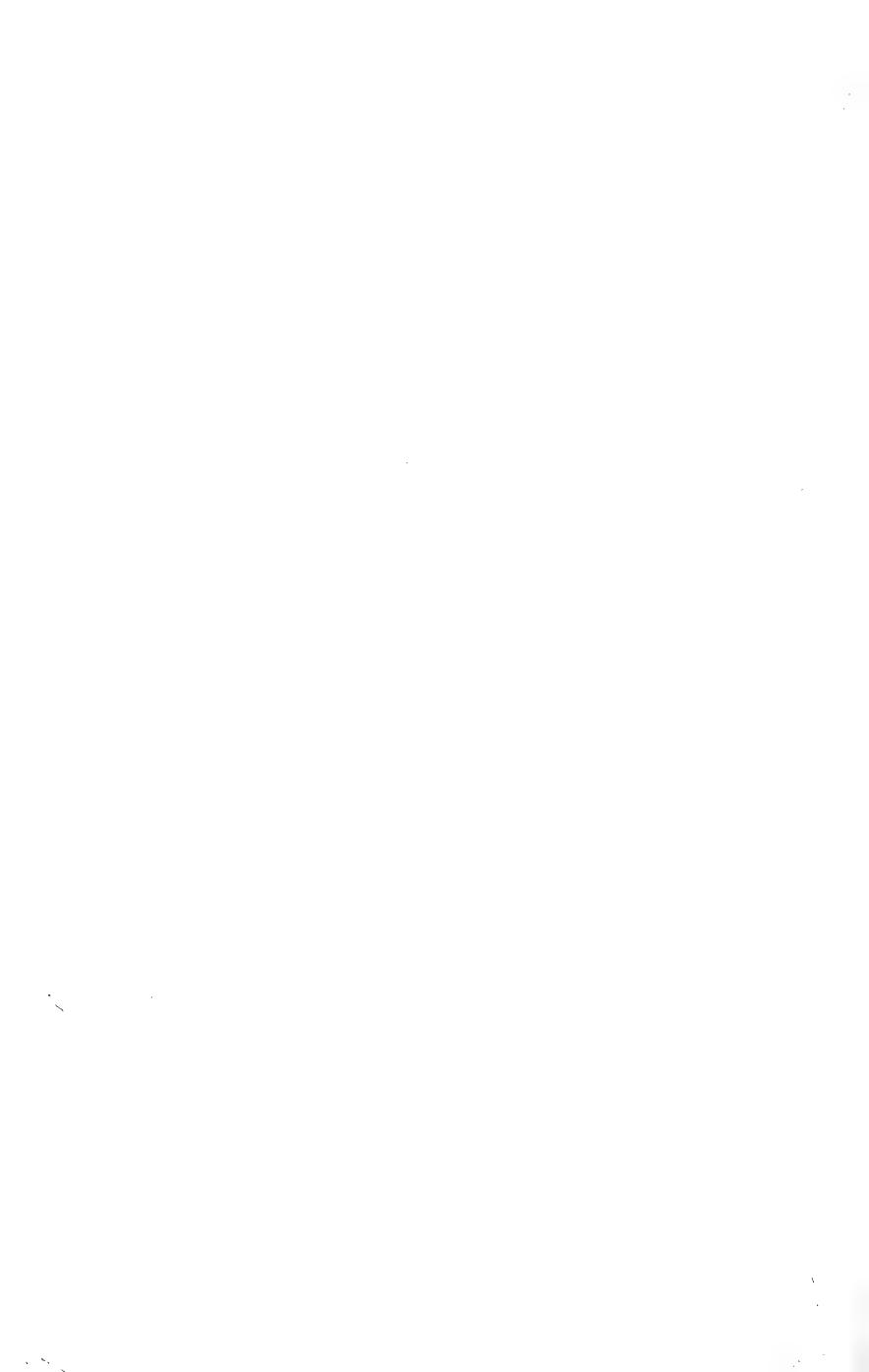
mark 19

Might clear, frost tice. Two termions flew at 5:30 a.m. possibly cours on honelook wider. Into flind at 6. Eckelon of cours ment accord east slope 6:10-6:30 unless there had been some calling. Mus more colling of the had for full proset them. Som I feeding intently wear bottom of soot slope at 6:57. Soot time tolo. Cours went book them 7:15 to 7:35. 7:36 heard quiet change on east slope. 7:45 book thereby call out an amounty higher whistly call for about 5 minutes, then quiet - couldn't see either . About 9 things started to happen. A land on east slope was calling whather I feel towards it. and finally disappearint toler on lower east slope

				,
, t			·	

nothaproeta (cont.)

about 40 you from nost, about from south slope (3) undo had hear calling, then come own to just slope. Stopped cally cer he approached, and ment them tola where I had last seen the atherbird. He donted ging the low quest chip, but no response. Then he worked on 10 or 15 yes and stepped, building the guiet ching up into a land chip, ord pressing some. after don't 3 minutes a bird come from tola that lebol gone thro and stoffed about 10 It down from him. He continued colling & preening possibly didn't red thooken had, who darry moved don'to wight, Thomasather hird came refrishfrom some tota to attack. Calling bird first display - ed, toutto, than turned and chosel other, Ballbrids screened as though flying but dobn't the off. after 15 or 20 yol chase then forgot exhother and grouped downloll about 10 your apart, the of probabily not seeing the other but the other probably seeing the 8; fruttet & groze up bezort the forgreen seep (15 you from next) then up south hill unlever he had come , food here - oon colling than attracted me book to love east slope where I prokast if ontherbird that fed for half how in and around for year self, then drappeared intolo 25 yes beyond next about 10:20, at 10:40 new collingon love east slepe, starting as law chappeart hundring up endedry flying. Left for home (1:30, Egy takan from rest 12 last mits at 5:15 mensures 51x 36 and weights 44 gur * Four slight voscolor patet but no sewbyon March 20 at 7:45 the sidion arrived + told of another next on the cliffs near his house. Visited it at 8:00 and the povent was wentating. went both at 1:00 and no povent. I aggs. 8 in will and his renter on top of others, all well-covered with feathers. Builta land nearly + trunsgrass for visibility with 2:10.



Nothaberto (cont-)

Took 10 the eggs. Size as follows: 51+36, 37 gus. Development ofendayo about some possibly day or younger than the agg tober from nest +1. (enorgo = 3684). This eoph was treated as follows: it was put note ment #1 at 7 p.m. Atmodator, temp. 420, at 5:50 a. m The in temp-res 340, cloudy, an alone years clamps 12, thermo loid in vest, 22; thems inserted into egg 2°, What beefa app from Greenjungen cold nights before moulation begins. Warch 21 Wolked to trespolar to note rest 3. In flind at 7:00 and stored till 9:40; no buds vear rest and prochally no calling . State 10 the 4 eggs; next bod not been entered. The egg seemed to be about 40 hour stongs, embryo with lead figure. Went past vest # 2 and 10:00, nobody on it, so tooks availer eggs to my suffice the vere oging 7 eggs dofate the I tooks the other dry, all well + Hence she must be still boging. Took one nore egg, which bod vo embryo developing , Joseph wore for the red of and charles . No souls. The red ? rest was 7" wards drown, a substantial sourcer

the red of next was 7" waids draw, a substantial sourcer of circularly weekfeet grace. Most interstant is Clafort both of is on top of a burst of foundation of dust and mostary turf.

Manh 22 Athl notrois of red of and letter. Drove to timple to chea.

next at 2 A H 3. Both some as yesterday. No bids on or near etter rest. Ment H 2 still with 6 eggs to a gropin rosette where both over yesterday. Then both to next H 4 where we watched from 2:20 to 5:15. No bid near next. Then I checked next and found eggs gone. No mess, no shells, just your

Most to I was under the big warse yellow gien icher. The rearly

regitation was worthy this but also considerable of the fine of brown

	sr .		
*			

Motherproctor (cont)

Waryyviafous?; but also another (see specimens). The local tolorias wastly Brechoria but some rigidem (Pothin photo), and rearby was gradranglave.

March 24 Hunting in lowly a.m. at torong, then after burch at tweeppoles with carl. at timespales lateren noon and 3 a.m. got 4 trianous, all f. Mest # 2 hood 6 eggs, cold, re-arrayed since my last visit, and one of them a bit smoothed. Next # 3 with 3 eggs, no bird. Shot one q on hill above next # 3.

March 25 Visited vest # 2 + 3 at 8 - 9 a.m. Mo signs of occupany so took eggs and mode potate solod with them. No approvable embryos.

Mouch 31 Returned to Tircopoleo where they had another next for see, to be known as next to the. It is industry up the slope with of the howerds. Indian showed it to me at 4 p. mand soid be had found it yesterday. at 4 p. m. to we had more on next, the 4 eggs were completely could by abundant peathers. The next is in an ichn clump, cluse along a tolo bush (quadrangulous). The slope is a fourly offen mittened of grodnangulous, ichn, conseigher with and thombush.

afril Visited nest tisk at 5:40 a.m. Morning clan, fracting, blue 26°.

Bird was on. Built blind nearby. Bird left at 8:15, distinguished by fach implemed on rumpled necks feathers. Italo (of the 4 seggs, which ever well-covered by feathers; it had a large embryo, probably about 3 days from Lateling. With anish mostering, some hid with rumpled necks returned at 9:35

. č .		
		,
	p V	
	K.	

nothoprector (cont.)

Then didn't beane again till 4:38. all day sunny tworm. about energe 10 minutes he powered or fluffed on stood up or moved around. Returned 5:47. Ital the rumplet neck hird on way and + book. One call while it was off next.

Mary shot a 2/3-grown one at 5 p. m. yesterday, See her or carl's notes for might.

april 2 Met # Alstroyed overnight; 3 comoled eggs, late embryos gove. This next make entirely of grass, foundation built uppor dry earth. West not well-shelter -ex from above.

Left piropoleo 7:45 to meet shephed lode some tour for 2 more nesto, build by her son age 4 to 2 nesto:

west #6 - on hell 5te of Trueofoles, 14,000ft. Mest in grass clump next to tota quadrangulare. Work or slape is burch grass sulver when we're we're

and the property of the state o

The second secon

Allowed the state of the state

Bird bod not left at 2:00pm, so Pretured to bus.

at 2:50 bird war off nest. Watelednutil 4:30 and le brown vot

returned, so Pleft rent of thinking Complet be presping

him off. at 5:00 be war booke on. State egg at 2:50.



nothoproeta (cont.)

(well control with facilities)

It was one of grembyo about a week or was to go. Sunset at 5:25. Temp. at 5:55 42° For 5° c. approached rest at 6:00. Bridfinshed when hims 15 feet away (bed approached untin 6 feet in a. m) and I stotato Temps of 2 eggs une 32 each, restal teaph of 3 40 2. Bird bed been inentating leteren I hr. and Ihr. 25 min after an absence of 1 hr 40 in to 3 hra. Brought 5 of the eggs some and post them in howandrawa; Temps of drawer 60° at 7:15 p.m. at the 18:30. Then egg temp was 28° grenet then and found spontenens movements and beart beat. 3 eggs left in rest overnight (all crocked) and wormed in sun to 2 q " should no life, but 2 of these were smalled, Weights of 8 embryos from nest #6: 32 12 no feather, 5 2 well featherd, 5 = , 5 = , 6 = , 7 gm; 6 gm.

Went fork to next # 6 at 7:30 and som a bird 60 year from nest ustelling we at vest shot it (3697)

West #7 - For parental schedule see AKP. Shot & on nest at mednight. air temp. 29 might clear. o'closed temp 392°C. Temped 2 leggs 35 2 and 36°C. These 2 leggs place a third were

left in next, convered by feathers, the other 5 removed to drawer. Outside temps at 6 a.m was 26°. The drawer eggs were reword

to sun at 9 am out were 420 at that time. Earlier they were

probably 3 2° as werethe spep from next #6. at 10:30 they look wound in sunto 39°. Openat them and learns mere beating.

Theretand, upon ofsering 27°. Embryos word, lants besting.

2 large egge from this next menered 55 x 35 39 ; 56 + 36 429;

and a smollish one 5/135 35g. Weights of the embryes

1			
	,		

1952

molhoprocti (cont)

mere 15, 142, 14, 142, 12, 15, 13, 15 gm. Nest \$7 mas in the center of a rather sprawling tola fordravgulare, but alongside a trift of golden rebie that green up though the tota. Surrounding regetator mostly quadraigular + scattered buil grass. aprila Vichapielini, 12, 600ft. Indan brought in a of prelied clean; bought for I sole It was bulled on the hell east of camp, purbably about 12,700 to 12,800 ft. aprillo 18 tem. 5W Bigneoma, 14, 100 ft. at sunset saw parent and to more & opour young running on road, facent relietant to fly, and even when I shot trunsed flow only 15 or 20 youds. Then stated: and testes small, broad patch refeathering. Flushed & young, then heard 2 calling nearly: chuck thick, chock-chock, somewhat musical quality. World in and flushed 3 close together. One shot was a of 177 growns. Agrealed blacodult when flushed a

	·			
	·			
		•		
		•		
			,	
			,	

P. PEARSON mothers 1951-1952 (Little transon) (Codornis) De 19 Shot I at ken 57 west of Puro, on ich slope. Orang had follielle up to 4 mm and lealed adult. Thought at first it was young of nothproctor which we shot at goodly some sport. 15 km W. of Puro, 13,000ft Well grazed ich glass, a few tota, wany stone waller while setting traps of 4 pm along a stone wall, I heard a flutter behind to last on the ground, the Hely was a trainen lacking egg and egy shalls and the grazone bod suptimed out. I had stepped out while it was on its nest! a foot or so away was the grove rest trelsed under several adjocent charge of what. Shells of at least 2 eggs were around, plus feather torn loose in the catastrophe, place one intect glosey terra nerte egg of relatively envormous sigo 25 grows. This is as large as some of the bens eggs sold in Puro, Underthousearch eggt could find not voce of bood partel. There were down feathers and larger spronting feathers on the obduren. Let 2 stut try + value to try for mate. the one squally war a of with 10x7 testes and a crop full of by bettle. Egg was 47 x 30 mm, a sking deep unsaturated Kanender - 9 3 mg. Embryo corresponding to 24-36 hr. chile. Pairmani, Inspect that these call like were that in morning + wering. Much "men-tit calling at grandfast outsit Person. W. Person. Feb. 7 Feb. 5

• \$C

P. PEARSON 1951-1952

Nothera? (codornis) cont.

the q 15 km. w. Puro, 13,000 ft. Much wen-tit calling at daybreak, while trying to transpolate anita found another west only the year. from the one of stepped on Dec. 30. Same distance from stone woll (10 ft-), under ichn chump; contained 4 eggs. a few dry feathers in mest. I had walked 3 ft. from it while setting troppe last night. Parent vot seen on or near rest at 6:30 a.m, 7:30, 9:30, 11:00, 1:30. Stillouly 4 eggs of 1:30. Saw 2 codorino about 8 in grass "bolgerous" letures small fields (totaloes and small green unknown crops). anto also som ore, at 10 went hunting an long water and saw none. Codles of ground better, possibly some as the over found in cryp on Dec-30. Vegetation overwhaleungly ichn. a hille toler (qualitargulare + Bueshavis) and coetuses, plane, "tuft grasses and green mats. By 8 pm. no signs of adults near nest. Feb. 10 Still voodultarear vest; tola preture and removed 2 eggs One 44+30 mm, Joseph gosan purple-gran underdufted but not stenday; white somewhat congealed locally. Shot one at 50km. post from Privo, 13,200ft. It was one of 2 or more trojether, and a perdis was only a few yords anon Pardis escaped.

3 finles is 13,300 ft. (km. 52 ±). Flushed 1 Mothers driving into our courling place with riber on the valley floor, and 2 other singles while setting tops, contheflat and conhibite. Feb. 17 Fluckstone on flat in early morning, and watched several feeding near coval. Saw 3 singles there in the morning and in the late afternoon som a single feeding up a green

torque mito the scholofort 4:45 pm) and a pair ditto at 5:30 pm. Treat to locate a rest at each of the



mothera (cont.)

places where they disappeared, but no trace. Kerbaps significant that each of these was wowing sphill at sundown. Some we tot calling in morning, very little in evening. P.S. Those feeding wear the corral, and which would uphill at duch were almost certainly Notheforocta. Feb. 21 En summary of our story 3 km. W. Velgire. Mothers prefers the volley bottoms, is frequently found in metter parts with a short funch grave (suspecurers). They are sellow seen on the ground, sometimes run as approached. Many nore are flushed by walking around before 8 a.m. Than after 10 a.m. In fact we flushed proetrally none after 10 a.m. By refleated trangulation, no individual case enterly satisfactory but many fairly comming, I am commend but to wen-tet piping at 6 am and p. m. is made by Mothera, anta dains she saw one making the sound. When flushed they do not give to long sever of shearend -Who squedes of Molhoprocta april 10 Rehufrichum, 12,600ft. While lowing our tres area thrischen Jamps Corol soid she som 2 boly tenauour and undong bur. We stopped stomped around, flusted a adulta about 20 yords affort, but couldn't find young,



Penson 1952 Mounth 27 month Coppende) 1 Fourtrocks about 8:50. Bind at spent night up in rocks (bare patch in som plus; jeothers). It had walked (no signs of feeling) about 300 yes when Many phrobed it. Flew about 300 yes, landed so notreated around end of west cap book (2) about 9:15 fourt trakes of (2) and travel wyde book to rest with 6 unconered eggs. Bird 2 bod pd within 150 yes of west, then ran one north idge (= 350 gle from next) in company unth 3+4

north ridge (=350 yle from next) in company unt 3+0

3+0

3+0 Faint trocks came down hill from about 400 yde away

toward next. Revolet within 600 yds. of next, then ran NE,

yoin trocks of 2, disappear over ridge.

Returned to absention rocks at 10:30 mia soddle tetingen Nam

W cop Rock. Indirit see bird on next (no binowlaw), so birlt flind.

at 10:40, som a bird standing by next, then plant off Morth. Thousang

That frightened at and that blind unstoon close, moned at 11:00 to more district perch. When Koford come & 11:20, we looked at rest and that were to eggs, unconsider

. 		
t-		

Tinamotis pentlandii

at 12:35 a bid offworked next controvely, squatted over it for clout 2 minutes foring first arranging, rest building and foreering. Atting genetly when auto took over at 1:45.

Watered oppin from 4:45 to 6:00. Bird on rest, mostly guid but some reaching out and turbing in ditution.

March 28 3/4 "evong temp - at 6:00 25°. Reached rest at 7:30, a.m.,

Bird had speed might on guest and left before arrived. Sopping well covered with grass of a ordition, considerable short lengths of grave streams around next a Colling begand Morth Coppingle at 7:30 and south of blird at 7:00 - several finds. Ma finds mean next when I was reheard by arrite at 9:00. Bird had returned before 4:30 pm. when I reheard Carl. Ittl on next when

Mark 29 Morning closely, a bit snowny. arranded neat 6:00 a.m. Brid was or neat, quest. Stood up at 6:29, apant about 2 minutes peaking around persphery of next and today detection into next. Then stepped off next and Constly peaking at gran charpon with and of most) spent about 5 minutes throwing green. Pycanophallin, and publics: are into plant for in duestion of next. Then fed slowly off next note rome region where he fed last night, about 100 nch beyond next. Followed him until 7:15, then lost him: at 8:25 hard a single lind colling near where this bird was last seen, then seen a single lind colling near where this bird was last seen, then seen a growling wound followed by a church church. Couldn't told who was moking this sound, after I minute of calling a bird approveded from left and come church or actually in contact with colling hird. They fored in approache directions.

in the second

Tinamotis pentlandii

potter floofing but not much. After about 3 or 4 circles the tete-a-tile developed into a chose up the slope to the north. Jost one bind during the close. The other stopped unless about 200 yould begand the next and started calling again. Collect for about 2 minutes, then sot on tops of the rock for at least 5 minutes, preming accasionally "He then moved while I was looking for the other bird and so lost him. Shert considerable time trying to redoct them and curring the telescope tripod. Next worth by MK.

Rebeirs anto at third at 4:50 pm. Bird on next. Started aroung don't 5 pm, too snown to see next at 5:15, as left third and set 3 steel traps.

Visited next # 1 at 11 a.m. 6 eggs in next: 3 mitout and 3 beaden ofpen on top side, still some yolk in them. Two completely broken and empty shalks 2 feet from next. No tracks.

March 30 wated rest # 2 from 11:30 to 2:30 Birdon all time. at 1:15 a squadron of Thurseams fed past nest, many within 3 ft. of rest, one within 1 food. Bird on rest ignored than by preening and next constantion. Pulled several feathers and oblet to next, at least one of them from Bossat.



Teb. 16. Km90 from Pouro, leke. Pair with of downy youry singe of 10 day chiller,

. PEARSON

1951-1952

Hvallata (canh)

Teb. 21 3 km mi. W. Vigne, 14, 000st. the owner of this howerds should specify with 3 boling heallates the sign of 1-2 with chicks.

Test till Rock, wings guite ting. Took photo:

	•	
	•	
•		
		•
•		
		1
		•

Thurocorn

Jan. 10 Saw down young at Heraylarev about Dec. 26. yeaterday at Pampa Viscoch 4p. m. flushed apair and found there a shortour next in mot grass. Mest of short prices of grass, contained 4 eggs, each about 40 × 28 mm, really arranged unthe sharfely fortided a down, specialed brown round ends up. Went bock at 5 to photograph but no parents about. Returned & a.m. and two was feeling 10 ft. away; no parents, eggs cold although convered with but of short grass Tools photo mounty Saw flocks of 30 today (82hen. W. Pura, 14,000 ft.) This is the largest thousand others of 6 or T, occasionally pairs. Howkeard move of the "filing" call lately. Month 23 a flock of 15 frequently seem on hell alone our comp (Toronga, 14,110). Occasionally bear filing was. When a foch is never and thinking about telsing off they give a bother squack like an angen Mucrotus. They des tone a reterminant bell-less not Month 31 a squadron fed past Turanotra nest #2 at Heresforce allo, some unthis 3 feet of reat. Many received to view from I byenflythm not to another to feed. Run like rulins or sardjopper, certainty not change, Frequent standing on tip-tol and flapping mags,

			-
		•	·
			,

Humofund

Dee 7

Kiotorata, 11,200 pt; 15 km NETorata, Mognegura. Lan one or more striking black hummorfieds. They frequently Land land while feeding and often flat from rock to rock to perch. The rocks may be only a foot high, although larger boulders and bushes are available for perching. For a time be pereled in front of a rundumela Went book to the tunnel at 7:45 pm unto carlode lamps Just as tentered a hummer took off and flew wiring, hovering in front of me. It was trying to leave the trimel and I was waning my arms trying to beef it in. In the stermed it flew into the carbole flame and ettinguished it and thereby escaped. another hummer took off when That gone in another 6 feet. This one too flew into the carlide flame and extragmished it, but by using my everyway flashight & captured it. Then I saw a hest attached to be ceiling with a hird in it. Graffed it. It was warm to the touch. There was a lorge quantity of small bird droppings at the entravel. Deel Found another blue-stone turnel about 30 feet ligher on the hill. This contained but droppings, an all hunglind vest, and near the entrance beauts of hird drappings remuseent of a heap of could droppings! Did not deturk anything in expectation of going book late tonight to collect more humers and get temperatures

Lunder (rest turnel) 5x5 \ x 75 ft. temp. at 12:30 am 150 antide 5°. Next 18 ft in and 8 ft above floor. Mount of hide were in fut 12 feet. Temps at 12:30 mon on suring-



hopy day 16 2 mails at next, 18 outside.

Next factored by miles to coling to come!

Warmel

Warmel

at 12:30 a.m. ment into uppor turnel, a ground try and flew; careft him. Then a straked spine toil flew, body temp. morin, Then a human flew but excepted, Then

another humber flew; conget him, Then conget a torfaid humber. It was bourging from the ceiling, astrolly hanging from a vertical facture, want to help support

herself. Temp of turnel here, 25 feet from entrance, mas 14", temp. of bird in gullet 142". Kept her aline

until neft morning men ske une normally actions.

forthe longer turnel at 12:30 cought (acture humer (man bone hear the one that excepted upper turnel) whose

gullet temp was 36°. Tumel 14°.
In afternoon found another turnel nearly. This
one too had the remain of a rest, about 20 ft in.

after travelling over without raft rolly south, at (1,200') and, me booked in another turned and found remains of another humber rest. Here of 4 turned that no hand looked in, each had a single next. Of the 5 humber we complet in 2 turnels, all mere 4 4.

Dec. 15 Rivisanta Rosa, 13, 300fts antis sour a humer come ant of a fection-like bole in a stream bank.



Hummyfrid 3

4 km. F. Juli, 12, 500 pt. While setting traps along the "seaward" end of the pennsula along the rocky shore, found 4 shallow cover, 3 of them unto hummer wests Longing from to centry. The cover were "madeine" sea comes, but heard one other active sex care. One come about 5 feet high, 5 mide, and 7 deep had a nest with 2 eggs. The lest mas more here a crewer 4 feet mod, 15 feet high, and 20 feet deep. This had a nest about 12 feet up containing young. This and one other come had small but here drofffings, maybe surallow Went bock to 2 of these cause at 10 pm. In the big crewe were 3 sparrow hands, 2 of which I complet in butterfly net, I reforme-crowd flycateller, and 14 hommer, the of sot on the next while I caught the other hole. Her restal temp was 39 = and 10/ the 2 young 38. Both young mere alwart fledged and bod mid-rentral strate of brown feathers, which I think in character of adult of. One human excepted from the crewie. On the cliff about 50 feet from the creme and 25 feet rife twee corregram sat in contact but did not fly a the rest was well cerented to the cealing and In another come humer), grass, leaves, wass, etc. 100 yds away length the & on the rest (warm to touch), the eggs in fust feurdags of werbstron. also severelucles bockin a crockman an unature streated spiretail? (see takens Apermen, tail pulled out trying to drug it out of everla) Jan.3 Le Journe for Jan-3 Fab. 6 Found 2 veste in garged this Hvangue. One a shallow come,

the rest containing a single young ready to fly been garget and

	·	
		,
•		
		•
		•
		,

from mid-rentrolling. Other was nice title come contoured 1 or more nobed young. Muning of adult changing to set of next.

Feb. 7 Visited tatter come at modinght. Pount or next mide analog, excepted, and not seen near next next morning while tolking movie of come. Temp. It next at 12:30 a.m. was 8° and outside 5°. at q a.m. care nose 13° and anticle 11° (cloudy bright and seathered simplifie).

		,
		١

PEARSON 1951-1952

Colapter

Jun & Pairmain. Parents feeling ming young in holls in mud cliffs at anold company place.

1

, 4

Dong anter found a vest in a stone mollifolding of the road, about 100 yards from the international stream. Two proteins almost feathered. The parents did considerable foreguing in the green seeps, where thing tooks were abundant, and down along the greek. On the ground they run rapidly the with alternate stides. Took some photon of parent entering cavity, then shot one to see what at was feeding. On that trip it was a grub, but inside the next county, while was about 1 to feet in from the entrane, was the remaine of a 2-wish todfoole. One of the young had only unidentified remains in giggers to couple of power which way how heen small from or todfoole, and some green negetable matter). Another parent returned to care for the remaining young after me shot 3404.

			•	
	•			
			•	
			•	

SPECIES ACCOUNTS MAMMALS

	•		

Dec 3 at 8:30 a.m. 5 km. S of Magia som a fot along road. Several shots with barnet but mised It broked smaller than the cauchera for after a comple of sighting shots et. we got in Bre and drove of Then som 2 more fotes in the road. One was even smaller than the first, accompanied by a 7's grown one. Shot the larger of these two It was a lastiting 4 with 3 placental sears (2+1), ret remain in stoward. The young was related to leave when the enother

april 28

Prichupichum. at 3 p.m row for ontourfor beyond out cenare area. He was suffing booker forth, statuting, waking about docker, pering or suffing down below. Watched him with burierless for about 5 minister at 400 yets, then took woise corners and appropriated to 75-100 yets. He should only shift covered and appropriated to 75-100 yets. He should only shift covered and interest about a forth forth your area contours statts followed by sook wasceroful, but wort of the time nosing fails and forth, Lead Issetto ground. If the about 20 minutes and feether 15 short dashers he cought a quive prof, this was not after a statler, but just a side took while nosing along, the art it on the sport while took shout 2 minutes. During my matching he was the shout 5 times. Shot him. Two statter gives pays in storich in by pieces. Me bygarden toward

			·
	•		``

PEARSON 1951-1952

ahodon bolinenses

Roc31 5 km. W. of Puro, 13000ft. Discarded & cought in ichnrocks: Three bolf-grown (18 244) and 4000 with his testes and 14 mid-prey. (18eft 3 rt.)

.



19. PEARSON

bolongs berlfselini

Decq. Rio Foreta, 14200 ft anite couplet a late/preparatemole of samplesce as a balf-growingoury.



P. PEARSON 1951-1952

anheorneys bolimensis

Dec 12 Pampa Visiala, 14, 900 ft. Many (dozen) seen among roche at edge of green seep (see photo) both in afternoon and morning. Some adulta, but mostly young one third to half grown. Even the little over about 10 grown scoot about and act quite endpendent.

			•
			ì

Salea

Dec. 16 Law several coloures on Pampa audhorta and shot by but all dieglifeared by sunset. Som one house cat sitting out out the pampa, presumably hunting g page, also are dog setting, and one tratting along with something in his month about sings of g. fig.

among 3 diesected so far, I late frey, I lackbeig + early pry or resorbing, also som a wild a museing a thirt to ball grown going

Tel. 5 Some young the size of Phyllotis on Pampa and leato.

April 11 Some associated with Closings of summer on pampa 5 W of Programs of 14,000 ft.

april 15 Seniors were Pampa Capany at 14,200 ft.



Logidium

Dec 7 Rotorte, 11,200ft, 15 km. NETorata, Mognegora. San two large area in tailings from a mine. Big argular churche of blue stone, These are lowest Planow of in Pern.

Dec & antaphotono of these. Contained 30-m. Jetus.

Dec 10 Mer. Ihave, an american engineer, som a bout this morning !

Dec 22 Joguro Derlerias, 15,000, a of hot big testes but somewhat
darktflatby, sem ves. medrin, mest + grey molt pattern
March 14 82 km. w. Runo, 14,000 ft. 3 shot today. I late proposit, I
early pregnant (about 20 m c R), I youngoinet of. carl shot a
recently pregnant perole 2 days orgo. Have not seen any
balives in the colonier during the past month.

infracting condition. Of 344, one lete pag, I wently pag, I parous but not recently pag. alwast all have had aldowners round worms. I april 12 Recently partnersent 4 at Livin

opril 25 Consodor. Foctoling & seem inthe big solony, and numerous grey, lively, 13 rd to 2 grown young - probably only a few weelse old. Of 3. & shot, 2 were lootaling non-preg, one multiparoun

~	
-	
	·
•	
\	

Cente a few lung with graves page men the Have side of Pampa Quellacoto. atta sum y at once and I watched 3 stilling their heads up from the same low wound, all within 15 feet of each other. They were much wore shoudant this worning than last right, and mere bulling lemtfully, especially just lefore a crash ding they differ from operand in bubbling in being less shy fait or at least of ending severe time booking and of their burrows, and in coming out outs to surface to feed. They seemed to have to burrow so much as gomina, for several (at last 3) will be found bring away a set of burour nuth no signs of recent dyging, ante som a genien pig to the format (into their a treo go wood tunel only 2 feet from a guiraping. Menther treas nor g progs appeared in the morning until well often smovice and the temps Bool risen about freszon

			,
·			
			•
			. ,

PEARSON 1951-1952

tenongs permanen

afant? Rechipelini. Comped last evening to in mobile of a pointson truly mologrado with treas. This woring aired miseel bottle-bubbling I marked off an area 90 year square for censusing then hunted on some of the pampa varby. after therety counted on my area all the burrowne that showed signs of being used in the hat day or so. The soil is a grey clay, and I is not good for slowing which deggings are brand vew. I counted "new" diggings and new new draggings. The very vern" were certainly used today, the "new" probably used in the last few days. The 90 yd area contained 319 new burrows and 245 very new. Whenthod finished my census at 2:30, I wanted a few minutes and then from Bus counted 16 twears on the area. They had probably been kept undergrand by the censur for 1-2 hrs and may have been hungry at the same time, ma go transect from Bus (welling the census area) 117 amonts were markle at the some time. as warman as 25 of these may have been guinen pigs, but the rest were treas. Started shooting on the area at 2:45 and collected 7, plus one 2 ft. outside the boundary. Total secre for day war 16 times, and 15 of them were ff & all by shooting. at 4:55, after collecting 7 from the census plat, 7 were mable. Some treas were still out at 5:15 and level Rubbling at 5:50. fattern. Sepreto of fetures (all 4 forg) mostly of! april & Collected more twas on the 90- yard censur area and along ita boundary. Total from area now 21 butonly 3 of. Saw a few gumen pigs on one edge of the area torby, but none

	v				
					<i>\$</i>
			•		
	,				
				٠	
•		•			
		,			
			•		
				•	
					•
			•		

opesterday. Ital at least 3 treas left a Hove seen as wong as 5 treas souther 5 yds of eachother. Som one run 3014 feet today towards another, then foch organi. associates seen so for are Chrosoups, authorings bolumening legards + tooks in the Conorma (see specimens), many tena mucha, occasioned block + white planers.. aprila. Excorated a buston in centre of a cluster of hales where 4 totaling Jewolla bod feer shot. Brown where I lactating of was shot convected unter bold where another botating of was shot 10 feet away. Mowhere nove then 8 deep. Deffers from opinion burrow in great number of broncher. Hardly swore than a foot without a branch, Fruid z chaenhers. One mostly full of drappings, other a rest of was about i foot dain, ailing 6 below surface, about \$6 - Tweles deep. though about 2-3 when of gross-tapta etc. a few droppings numerous earings. and for defruitely head the juveniles butill, especial one that is probably litter mate to 3735 (64 gracus) Son 3 feeding today unthin 4 ft. of evelother, 2 of them actually in contact and used some hold when frightened. Both full grown Som about 2 genmen plys on the area, one used a holl on the area. Tour invetures collected on the area today (one a junemble , making a tolat of 25. Two jumenles definitely remain, possibly 2 odette also. Mo signs of ismosion yet.



april 10 One adult seen an area still, near a boundary. Todays take 3 juvenills, one of them wardling and on surface, cought by Land (3751). Shot a Pava Miner on the dea, but only wounded ! (broken ming). It promptly ducked down a hill two burrow, When I went up a broard ron down some burrow. I went off and got a shorel, come tock, and started to dry, whereupon the bedappeared out of another hall a few feet behind me. all twear cought here bone bad white pattern as apples above. More conspicoon for for than 88+ Todoys take of 3 Juneinles mokes a total of 28 twen taken, one known to remain, Mo signof masion attourful to area on each side was beauty populated. In fact, aren on for sold seemed much worldensely populated. Besides gomeofrage et mentioned earlier add to the associates Throwever, bambs, and the short-total Heggeroungs of non-Assisted Relied a 3-foot-square area on the censusplat with typical regetation and draug all the plants, doct an unbrown amount of roots, perhaps 10 percent. Cleaved off dut roughly and stored the horizont in a flour sac. Will have to washin raver to get day soil of routs. Myst of census area los so regetation work than zuch

high. Nearby are agas of testers but there are only builtyon not stallpaperlated by theor. May wears in the center falant 50 ares of sendar terminally beauty myested. The gainespape worthy around the edges. The pamps fere is a mile across. No trans

		-	
			١

puil 1) washed dirt off vegetation somple in river at challefoles. Distut lever what to do with little dood leaves to that floated to surface, so decorded them. This problem was not excounted with the "counter" from the Tutuspace sounds. In the maching way have lost as much as 5 %, of him roots to besses forme dist remains!

for further softening & mashing

april 14 Frutter washing of plant soughle in river below Jogo Lucho. Jost more dood leaves and probably some living water. Total loss of linigerateral way he shout 15% in form of roots left in site, and washing losses. Washed soughle is now street in soc to dry.

and unsking losses. Washed sought is now street in soc to dry.

april 24 after sun-drying the plant sought weight 527 gras.

april 28 Returned at 5:15 a.m. to our Richapichum cenaus.

area It non obvious at a glance what took offered after a peace " of 18 days: opinion people bad word in, but few twens hereword if had read seen word from a grain proposed the area at any one time (and took went to end of our decuration), and don't that wore took a list on the area, possibly wore. This working bown 10 at once not think at that this warm, probably only a weeker 2 old. I will be sea all day and of it 3 adults and I had; I wall that to sea all day and of it 3 adults and I had; I would all all a list time ferrals (Its bok only 6 cet from to 2). Don't know of any revising, but think it possible that to 3 adults remain.

Man be a few bolds too, since leave very bod to see (but conte fend if present). The q + boly were short at a paint where we know one adult remained 18 days ago, so the impaint from from one adult remained 18 days ago, so the impaint from from one adult remained 18 days ago, so the

Tuco census

April 7-8- 1952

Hd. Pichimpichiani, 12:800 pt., Dapt. 9 Prano, Para.

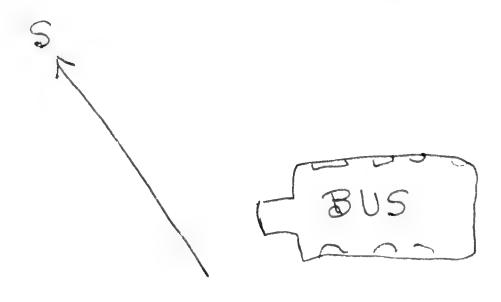
Po P O S

N DF

N DF

PO N DF N B X K I X A X R POTA M A X R

> X = unnumbered 9 omale letter = juv.



Chromys person

day seems to be a odult 33. & a dozen guisen pigos
futosoturis transgard is the fort toth antes som a
Treo "charge" a feet toward a guisenfir totan. The
quisen ran off.
The tota true shot today could "buffle "charact as
loved as ordult.

add to famo of the area done (Matryfelin) and
foff. The futto hunting guises projes at 3-4 pm
about 200 yele from the carene area.

cterroungs sp.

april 11 Returned to our Livine composite to able to rove of this two.

about 12 tair catch of treas, but wastly generales swall flerales. Several complet by telly skin or hind feet, here there were bookmards about. Terrain leve is very sandy, one worldthinks too sorby for turnels. Vegetation is principly testing outlefely by with scatters:

too vigiding. Many feeding balls often within these plants, and penal-thets stemm of vigiding are nifeped off clearly of these balls. Tails of test trias fault (with difficiently) wherean pervanin doesn't april 13 More training in woring - Despite considerable hunting we have

provered this species above ground here (or evenaded).

Droveres and over the cuesta, their down to the sample tetween

Junie + chollespolen. The treat go right up to the eld

of the Festives, in fact sometimes a successive of dist wounder

stome where one strucks out for the continents divide, but more some to real the divide, although only a fair hundred you'de

There are scattered diggings down the flanks of the power owner the Power of the time, which alopee flatly but stroting of toward the dinks, down to the even, compare where the short-cut wood leaves the main road, late of diggings; put not trips after burch. By 4:30 had 5 trees, no more at duck. These we all smallish order, some looking quite fivere-ish, others more official, as ever had hoped. It can't down what they are interpoles.

The substrate is sairly great registation a mixture of the rightern and Feature and small down burchgress (see photo)

more of the treas here bubble, They cut tota vigidum.

aford 14 Shot a Living ish juvenile at 7:70 a.m., and som fresh topping at 8.

		•

PEARSON 1951-1952

Traps not rearly as exceptulas yealthour. Left them out until 4p. m., then left for Copazor, associates up on Livie, lesides vice trapped, and views, Therowns, Turnotes, maioche?

		V
		,

Ctenonys opinis

Dec 11 Logo Luche, 14,500 ft. Many two near here. Ir. Juan Pulgar calls them "certenejue". They live in the feature hills, out on the short-grave paints Heatine, and in the "carrot" desert, The latter is a most interesting habitat. as one drives past one sees nothing but said + redshiel gravel, sprinkled with their diggings, the new diggings darker than the substant because the soil brought of from as little as 6"down is moist whereas the empres is dry. Close inspection of the surface reveals rather alumbant plants, mostly little resetter of beause flood with the surface and with a lightly to tap roots of a 2 ft-square floot Peterrated a fritful of these "carrete" (3 or wore species).

Four shot today, all ff; I min., 2 belating, 1 preg.
No bubbling herd yet in this region, probably all openins.
Pulgar roup they squeets bits a mouse.

Deels Two withins ensuntered called them Tococorros.

Deels Rio Lanta Rosa, 13, 300 H. Carrylt 2 in Mcaller gopher

traps among tols and Festivo, One letween 4 and 7 a.m., the other letween 7 am and noon. Both were aline, both cought by hird leg, From their size in relation to goffer trap, both must have been going borkwood when caught. Both gave grunting rouses when handled Both fort. One while dogging in a coop bob of dirt word from feet

ponto Pampa Viscoita, 8 am. One feeling on a low wat "Senecio" near seed-simpe rest. No diet at bole; like a goffer feeding hole. Never emerged wort than holf way, would serge with teeth or front feet at the mot in which the hole green emerged.

·			
			•
	₩		
•			
			`

cterony: ofmiss (2)

for 4 to 15 seconds, then disappear into the burrow for perhaps 30 seconds. Sometimes manipulated foodwith one pour, appeared at least 12 times and allowed me to approach and photograph from 15 feet.

Jan. 11

Then at 7 am. Sourt marked 10 new drygings (since dawn) and out on a the area. It least of probably represent district treas become they are separated by 20 yards or more. afternoon before bod hem rains that, lessing colonish; at down me merein a clarat, temp. 38°, followed by some.

at 10 there were 3 new diggings that looked separate and 3 or 4 other near over already worked. On the basis of digging up with 10, they are would given the area supported 10 or so times (assuming I two per fresh set of diggings). Sow only 1 on each of my rounds.

When doging, they stick their heart out, look around, then duck down out of sight. Sperts of dirt then appear out out side of the hole . after perhaps 15 severals the wear appears head first, books around, then emerges completely crossinise of the burrow and with similtaneous plips of the hind feet proches the dirt mound further away. By suninging his hind granter around in afternations an are and bushing he pushes the excessted dirt further away, then preforing the very for more dirt to be bilsed out of the hole.

cenam area at 6:30 pm, here no dogings sivet the snow stopped at 4 despite colon weather. Sprinkling of snow on ground.

,			
١			

PEARSON 1951-1952

pour and but pile mond borners

associates so for in the pure desert have been 3499 (Pring miner?),
Tinametra, wining, and alknown. In thenerghtyring Festives—
rock habitat add 3500 (coth-resper?), problemm, and
Thinversus.

Two infrant of bore started dragging about 6:30 a.m. (downalout 5:00),

Two others near my observation rock at 6:45. One of these worked

rother steading until 7:45 and had made a fourly good-arged pill

by then, It then appeared at another half about 15 feet away

and first grazed a little, then drag. Two others nearly (one about

20 year and the other 30 years begand it) mere able digging at 8:00.

A bolf-grown young appeared near my peach about 7:45, striking

bed out of feeding hole and apparently grazing a little. It was quite

shing block with probability no brown—looked somewhat like a sea-bon.

Pt then appeared about 3 feet away at a feeding hole under a Feathern

and here it ground off servind tripts of feature arbon. It therefollows and

each time disappeared down the hole with them.

Ommy census area at 10 found 20 new diggings, all

. •		
,		\
		- 4

cterous opinis

use either obtations to yesterday's piles or new piles only a few feet (namely about 3) away. Saw 3 treas while doing the rounds, 2 of them gut to tame and allowing appearant to whant 20 ft. One left the hurrow (not reently ong) several times about 12 ft. and severtless + milled at plants. you can preprently see their severtless or milled at plants.

Wounded one at a borrow and tred to dig him out. Followed .

turnel about 20 ft. to under a tota + then under a hing stone
slab. Several short blind denerturely, turnel numbers

word than a foot below surface. Ended uff at a nest

when the slab. A few uppole of old moldy droppings and
old cut gross, then a batter of mes dry grossent in lengths
of a few wiches. also several hig "carring possentes such as

me found on a premains specimen.

Jan. 13

add to associate in the Festiver-rick area Ebywoodonton, tood 3506, Dissiegen, hims. Went to my morthing rock about 7 but nother of the closest 2 two were digging (infect netter lod dug by wan. Morning was survey and warmer thoughterday. The third of these two s began clogging at 7:15 about 2 ft. from yesterday's dig. at 7:45 one van Bus was dropping and another had already dry. The balon appeared at the some tedora bale chait 8:15. That him a

Went over my censura avan at 10 and added 11 new house.

= (I new parters and against 11:30 and added 3 more. also
started famesting to area by shooting a 3 at station 21.

at 3-4 pm. set 15 Morabel gaples traps, at Leach of the
men diaggings: Atthore 2,3,9,11,11,12,12,12,14,15,16,19,20,21+

		•	
·.			

Saw no treas during this period - midy chardy. One two in my 15 traps (cought by tout) and 4 spring, one of these (at station 2) with fur + gove . at 8: found only one new drying and by limeh time only about 4. Maybe to snow, which was gone by 8:00, or my distrabance setting traps yesterday befor their from working The 2 closest at my watching rock don't markerther, but various others did. a for months ranous dognings on the cenama area, white turled hank rearly. Shot 4, and the census area in the morning and at moon duy out a burner system occupated by loctating q 3511, Junemble 3512, and one other jure of some size but not collected yet, Found no nest, only one collection of moldy drofflings and another 18 yards mitting of droppings and recently gothers grass, love ets. as before not many lifuentions, rankere delper than 15. at 6:30 whent was

soming clarked my trys; they were untroded. Motied that the moun wor

slaying on the censure area and most everywhere else, but that on to little to left of the center of my area I more wetting are fast and fell, being a middy stew. The soul here is clayery and this area is virturaled by tween. The light of surly gravel

A Company of the second of the

preferred by trans affarently mentate to a non-from earth lest just as vicinos files do.

Jan 15 May traps in same place conglit nothing - only one spring in a . m. at Station 11. Spring organia at 6:30 p. m. Only 3.

fresh diggings on the cenare area; at 11, 9, and near 18.

Scorety of drygging due to my removals, my distribune, weather, or? add to form of pure desert A wallate. San them time today sitting, standing or walking in the desert, but

not feeding - bot mouse movied about observer.

a stight award of executing from 2 starting habe about 3 ft apart, plus feeding scratching around one of them, about boly voy letures it bod started another bold from the surface. It was 4 or 5 when deep but definitely blind. Forebed as though there bod been as all bole their but totally collapsed, there bod been as all bole their this britating of. Found are mount next modernathy of the brown broats of the flush plants but probably not the current rest, numerous feel bits of plants in the turnel. In places this turned was as deep as 21". Dog tracks went occurs over

The true reacht my nothing rock was alone ground but didn't do much dryging. Several others dry as would walked affects root to some deserty region to real our for out from grown the bureaux went. In vo place morall true of treas obsert, but nowhere is one further than 200 years from at least one tota or one clump of Festivor. Touch no feels diggings wort than 75 years

•			
•			
		•	1

tenomys opinme

from at least some Festives, but lots of ald drygings 200 yets out. One large charge of Festives all lightely had fresh drygings mater it and 2 trails of drygings radiating. There are certainly meretices within 50 yets of standay" vegetation than out in the desert.

concerning rover, they occasionally make a sound somewhat bibethe flutter of a woll-hid's rungs. This is an alorn call, woll as they chappear down then burson, not soon to ruffear

Jan 16.

at my watching rech in the morning 5 feels deggraps were male and 3 tocar were drying at the rame time, I to closest one day for about an hour and only took a couple of leter to ear during this time - these from the untoveled and of the bole, at the close of dogging she did little more feeding from this sol of the hall. He dog uf small plants by scratching unto the front feet and buting, hen carried them down the bold in her month to lat. She dolfrostrally no eating alove ground. after actuarty lood apperently stoffed that and came look in a half hour. The had then done a small amount of dryging at the halls of \$ 3+4 days ago and was doing morefeeding, less dozing than before. I think the new dozings are not primarily for feeding, at least not runedately . The builter on the hind toes are used for cleaning mud of of The posterior ventral fur (lower belly). This region gets quite durty from digning. Twice I saw the close & scratch this region, many one hind boot at a time dog-fashion.

Only 2 new diggings on the census area, one at 9 and one at 11. Set traps at them and at 10:30 cought a 4 at 11

	,	

P. PEARSON 1951-1952

by the skin of the belly. DIAGRAM OF THE 5 TUCON This bole was 4 yas from WORKINGS TODAY AT WATCHING where of 3515 was cought To you Jan. 14. So parthis is only needed of 2 odults in sure burrow system. Heard it as follows: & mustine collected here four drys Jan. 13-14 - adult of 3515 complet in trap overwight (probably cought but afternoon or lovely evening because died of effeature of southing) Duatehing web trop efering but nothing int Jan. 15 .- fresh dryging at some therrow, 9 3520. Lydeoway in a-m. Set trup and cought pregrowt

and our a going two at the place where locating & 3516 was abot greaterday. Since she \$ 2516) had only me placental son, this is probably the only surmion there. We tried to dry out the rest greaterday; seeing the opening are today surfaced us to dry fruther. Continued the execution to 18 yds with no startling choice areas except that it reached greater defeths than we have benefities encountered. Marel of it was at a right of 30 wickes, here slow going. We stafffed before reaching the end; left 3 long shermous set for the young &

ante next huntery in a mi and got 4 trees, some swerd others. One of them was a half-grown q - larger thous the precision we have gotten so for . One affinently bod her shot or my which front ley (percify on our premious trylex through here), and the shows on that pourmers much longer than on the other foot.

Business has definitely slowed town on my

		. •	
			\
· **			

consus area. I now know of only 3 twos revaining these one at q, one at 24, and the jurished at 17. Including these the total forthe over will be at least 12 (which includes 3 juished) Jan. 18 The industrious two below Bus who has so realty ordfriedly produced a new mound early day (see photoe) has the following distances between holes (from south to north, heree choudrogically: 4ft, 4, 4 \(\frac{1}{2}, 10, 6, 4, 8, 8, 7\(\frac{1}{2}, 6, \frac{5}{1}, 5, 9, 5, 7, 5, 7, 9, 4, 5. The falls work like they average about 119 to. If the Surrous average 9\(\frac{1}{2}\) com.

or own, then it appears that of the furnish dust is brought to the surface.

soil \(\frac{1}{2} \) com below surface, iz ; two burrow (2" deep 7.

Jon. 19 Mo fresh diggings on census area, but presumably we failed to remove one at 24, one at q, and a junemile at 18. Lines 24 and 18 are home ranges only half on the area, me might say thatouchy I adult remained, and I junemile. Thus, the area supported to tues : 8 tremoved including 2 junemile, 12 adults not removed, and I junemile not removed. Total: 3 adult males, 4 adult females, 2 junemile males, 1 junemile sep motetimized, I adult sep motetimized.

Feb. 1 Paropa averenarco, 13,700ft. Here is a paropa not unblathot blow Mozacung - low Margyrierpus, toftad gress about 1"high, plans namerous little mot plants, Toods of 2 sp.; byards, grazed by blows, afforces & sheeps. World bour expected ctenous persamme and Mosgorous, but no bubling and 3 cought are near to opinus. The grand inwhich they are ling besia less sardy, earther, than in other opinus localities, with more

		,
		٨

grass and truf. They make femer dert piles, smaller piles, more toler look the feeding holes. The holes are smaller, also; most I can bowly get my hard in. There is considerable surface feeding on your, Lest , + them bush. I keylof off whole brander neathy. Wen cought in a tryp and pulled out of a hole, they swart. Uponthe divido (14, 50ft) between anomarca and Capago (where me slot a Living has specinen), is gravel - Flatier - tola country were tryfacally ofsumins country and where us took 2 offering. Feb. 3 Vampa Capago. Under the old rangementher conditions the treas seem to be more ative in the late afternoon or evering. By 10 a m. had seen only I fresh dogging and no treas. Traps in afternoon yesterday cought 4/ sieces of sking and overught 2 twas (one a toby). Both seem to be good offining, the levain testica - tola (roydum). This is only a mile or a from the borer paropa where the more report specime came from, a balometer or 2 up the road me came at 10:30 upon a social field cleared out of the tolo, dominated by Rycraphyllus and the 2" tuft your. It was surrigard tueor mere stelling feeds up. Shot 3 (one immature), missed 2, have 500 more per acre. Certainly denser here than in the unwollsted tolo sursunding the field.

	•		
		•	

P. PEARSON 1951-1952 Ottomor opino (cont) ypril 16 7 lam. E. Jogo Locke. Returned to an census area and found what appeared to be 12 sets of recent drygings. put out traps in late afternoon, april 17 Stat , and traffed 3 treas on the census area, and 3 trops bod hair in them. Mo fresh diggings appeared. Saw dones on the census area, and ground tyrout, april 18 Nofresh diggings, and no traps afrangon the clusuranear, Collected dove (gold shoulder portiles = Nietropetron?), ground try such (Musisapieale flowinche?) and flyllotio tolucions on the Chronsaria + at 11:30 a.m (air 55°) temp. in 2 burrous & below Durfose were 7° and 9° c. at 3:10 (air 52°) when ground about have wormed up nost 2 tumels registered q 0 + 10 . april 19 No freshdaggings on area, no traps spring. Tooks burron temps at 5:30 when should be collect: 3 = and 4°C. april 22 Thelis ven digning on the over



PEARSON 1951-1952 Cleronya offinna (wit)

37898

37918

2 2 2 2

3792

37909

m,

..

V.

			,
			·.
			•
			•
		j.	
			,
		1	,
		1	

P. PEARSON 1951 - 1952

Vienna

Deciz Man Lerds between Jogo Visencho and Pasto Grande.

Mostly 6 or less, one of 10, and one of 25. On the

eventure rook above the stretch where Lefferted to

see 200 30 boude saw only 1. More at all in

our valley (conochara)

		·

P. PEARSON 1951-1952

Llama granicas

12 km 55 w aregurpa, 8500ft, Had just parked bus about 200 yords offrood when I saw herd of 8 growscore (7 together, (100 yards away) Attento about \$00 yards away. They who wormed about no but not alarmed. I hay look to larger than wearing, no ofpron, block fore from distance (but greg up close). Some were rich moty color and some more grey a Two about half or 1/3 grown. I stalled them - down wind - unthant much difficulty to about 200 yards and shot I adult f. The rest ron aff up hill, one of the young boying behind the others. I Ley all stopped to both from 400 yards. No sound. The water had 4 mpples (mynin) no mult but some warmarytissne, was pregnant with fetural arms, legst nich jaute skunning. Fetur 262 × 4 ± × 8 2 × 24 Stowach of mother with warse brown regulation (no green regetation nearby). Longe scent glands on hard legs and interesting sternal pool. also pad behind hoofs . Myde no sor

		,

Species Accounts Reptiles

			·
			,

Frage + toods

Dec 27 Hraylarer, 15,000 pt. at 2 p.m., overeast, coldwind Howing, turned over stones. Found 4? tooks. Under one stone was 3450 with a rectal temp- of 11½°C, and another tood (3451?) The temp. model the stone was also 11½°.

april 1 Timopaleo, 13, 600ft of gellow-footed toods mere wordering about in hot sun at 1:45 for ap on tole (gradrangulare) billards (next # 4), One cought and weeffed in banky beinging out of pecket was completely dehydrated in 3 kms.

a stollow Distribut pool in a seep were at 7:30 a. in with it into field on the pool of they were on the fotom entere the temp. (noter 3 is delp) was 3 is and (6" deep) 4. Sotter in some pool sow intermofbourg tota of the teny brown toad with stripe down center of books

april 22 Teck womes of tooppoles modernee in shallow Distribi pools. what's" of ice. Temp at bottom of a ("possile with action tooks was 2."

			·
. vs	•		
		•	\

1951-1952

Liolaenna multiformis

Dec 26 Ante found a rest with an adult & 3441 and 4 or 5 young (3442 - 3445) under a rock (Honglace, 15,000 ft).

[plus one dead, curled sprjama of some singe,

They were under some rock this morning as yesterday

afternoon

Honoglario:

Pac 27. From + brigard hunting at 2 pm while cloudy with cold

Dec 27. From + bygard hunting at 2 p. m while clovely with cold wind & Ground (top of) temp near stone with bygard under it was 8°, bygard under if to stone retet temp. 15°, temps under stone about 12°. a large flock spiler was in the "nest" with the bygard. (3446)

Under another stone was a big of with rectal temps of \$20, and under another 2 juveniles. The giventle seemed more actual

Voder 2 stones found remains of adults.

Jan. 12 5 km. E Logo Sucho, 14, 600. First byard (ashet) seen at q:00 a.m., air temps inshood 44, rock in sun 21°. Campbet young anout - auna 35 mm. an adult box a few moets and probable plant revains in slower.

for 13. 5km E. forgo-Lucke, 14,600 ft., Fluis bugging in sum at 8:15; shade temps. 5 but robigate out. Fruit his light sear at 9:00, shade temps $9^{\frac{1}{2}}$, sunon rocke 20° .

april one large of backed on large rock in hot sun from 1:56 to 2:10 - sun not maximum, their fut distant whippy cloud. also on some rock pour 2:26-2:35.

after 18 5 km. E. Jogo Looke, 14,600', See totays temps, record, Big by and out at 8:00 mit rectal temps, 31°C. at 8:30 a ting or (5:A. 91mm) with rectal 29°. This one squeeded while being carried in Doc. a big of put out into sun at 9:40 at 10:00 was very lively with rectal 35°; substrate soud rose 39°, shade 11°2°. at 10:05 hours put

•			

surguish but could run slowly; shoot temp 110.

anti's big o'oncensus area exacout at 2:40 when heres cold in overcost. He was shettered from coldinal highis rock.

Temp. wobs a byord rock of 3:00 was 12°.

A big of disconered under a rock at 4:30 bod reital 24°; shoole

teach well not 9, duff moder well 12°.

Tethered coffetine in shoot it 4:45 bed reetal 7° 2°, shoot temp.

8°. He could note slowly, right himself, but bard + long.

at 5:40 his reetal 4°, air 7° 2°; could walk aboutly + right slow.

at 7:00 " 12, an 12; very slow mallet righting, bissing. Their burrown here we moder boulders, in grave chapter or tola champs, or in two burrown out inogen. Lowe of the

over under bouldere they seem to love dry thousaker (auto sour

april 19 at 7:20 complet a big of. He was slightly sliggish, with reital 14 2. Strattenfo. at this timeonly 240, Early substrate where cought him 7°c.

anta's of energed at 7:30 and boshed at entrant to burour at 7:55

Jumped at moset, moved around onto brother pench. 7:56 of arrived,

4 renoff and around 5ft away, pumping up todown, of bashed on growing

puch ale hot left; 7:02 of row off 15ft. as bock; 8:05 of defected by

lefting hird quarters, whing tout; 5:12 of moved to of pench she would

off 3 feet; 8:19 2 ground tyroute flewover, of and f works shelter, of

resplaced in 2 ments; 8:20 of resplaced on stone 12ft from 8, 5

Frankring. Til 8:35 (when left) they preferred bashing on motor

• •

ash.

Liolaemus (contid)

of dead Features. always composed temales on alope so their bock was fully exposed, alward it oright to surior rays.

Opin 2 Prize appeared by a rich teture 7:45 and 7:55 a 7:58 ram 5 fest to 1 to the original original from 5:00 fly took of next to me, pulalistic first / get of today. 8:01 origin 3 of toward me your purpose push its first fitter at his took 20 they are. 8:10 of out to the 20 the rain. 8:40 a or wellowing authorized one of the nearly grass: bester 5 ft. from a burrown. When approvided he wolfed on toward 2 rook but not not not burrown Tip of his tod mothers. I from a rock. 10:20 part to the gold of 2 ft. from a rock. 10:20 part to the self wold of 2 ft. from at 10:30 attack refeatedty. This of lives under a rock about 20 ft. from 2 rock.

5 km. E. Logo Inche

april 22 at 6:55 a.m. executives a large & : rectal 19° solution 5° (sout), air 23°F.

Temp. of 7: 15 under a ligard rock (but no ligard) ups 42, at about 8:00 not up to take monies of wally tooled of the 3829) Totaled a 8 outside his burrow and another antado huran of 2. He some of oppropried me then passed me to my left most often possing me another ligared deaded from up lefund me and desemble befored a tour of both desembles as and frame "meeting", findly settled in a copulation possition to o with a firm but on side of a rich. They held in a copulation possition for 15 minutes intent a weal while took monies from 15 feet. Finally 4 worseld to bose, they start a stock and life took off while took of the best of the stock of higher, bossed his defea while of the led a feet them a took forth list of and renoff again (see moving). Campt her in a life made to have and fought with a tellered in front of his huran. I then deaded home and fought with a tellered in front of his huran.

april 23 Coccoetors, 15, 200 11. at 7:300 m executated a large dark of on dead grass with restoltemp. 23± oir 34° F. Took plates of 8 F and 9 from for furche to show roution: 27 alone, 9 & felome also 2 pictures to show color darge with temperature of 3 8 8 ± int piture restol temps. 9°C; serond 37 ± 1 food for the point a small-media rock - basking & bod restol 33° and a 100 mm. of 3 4°.

april 24 Tethord 3 lyoute out in seen at 7:40. Then temps me 1°c., thin sizes 54m. 8, 70m q, 93m 8. at 8:15 their temps me 31, 27, + 19, respectively. air temps of this time 31°. at 8:35 rectal, 28, 31°, 26 ±0 respect. at 9:20 28, 29 ±, 31° respect. at 12:20 the small one 34°, making 33° fate stepped on the big one at the 9:20 resding and it acted stapped or tethod ever after. Shot a large 4 at 9:05 next rectal 33° 33

april 25 Countit big of at 7:45 with rectal 13; young of at 8:25 31° house of 9:45 34°; longe of 10:20 37°; and 9 10:30 34%. The concerbora so are frozen rooms in the blue than those at Tutapara, and base bigger sours. The rooms seem progress.

	,			
•				
				\

P. PEARSON 1951-1952

Lidvenus (cond.)

aprileg Pet 3 ligards out into sun at 7:12 am. (10 dem. 5 W Hvocullori, 12, 90) They were a small of 5A48 mm, fairly longe of 84 mm, hoge of 108 mm, al y roun Coccopara. The \$ 8 4m mondered, wheth lobel not smount start. 30 元 7:55 - 24 7:22 - 162 102 102 29 8:17 - 29 26 33 7:32 - 20 17 7:42 - 242 182 187 300 342 353 40 3:46-33 ユュュ 31 11:00 -33 36 37 55

May 10 after dring from Juboca to Tres Cruces to Congrato to Charles to Charl

?*

PEARSON, O.F.

MISCELLANEOUS LOCALITIES
WASHINGTON, NEW MEXICO and
CALIFORNIA.

JULY 1952 - JUNE 1954 CATALOGUE NOS. 3939-4036

JOURNAL SPECIES ACCOUNTS BIRDS

CATALOGUE

		·		
•				
				\

1952

10 mi NW Quilcene Jefferson Co., Wash. July 19, 1952

3939 Ablodontra refa respa see Pfeiffer 83296×24×55×18 & see Pfeiffer 88336×20×57×23 &

		•	
			٠
	•		·

1952

6 mi. E. Trustos, 10,000 ft., Rio aribaço, New Moderno 3941 Lorap vagraus montrevla 109x 46 × 12× 7 5=9. 3942 9 Myotis voland interior 3943 8 Minsters Athronogicand 95x41x9x14 829. 155 x 54x20x14 29gm not for 200x 90 x 31 x 17 3944 8 Entermas minimus operarius 3945 9 Microtio longicandes mordax 170 × 58 × 19 × 12 3946 & Entainas minimus ofserarius 212×91× 33× 18 459 3947 June 7 3948 Thomough talpoides fosson 220 × 64 × 28 × 7. 101 gun 3950 & Cathopenfolis
3951 & Cethronicotus longicandu
3951 & Cethronicotus longicandu 3 3 5 10d Im 272×79 × 39 259 gune 157 × 54×20×15 39 gua 97 × 46 × 9 × 15 10gm. 3952 4 Mayots volans interior 100x 45 ~ 9 × 14 3953 mystis volans interior 8.5 gm. 215 x 5 5 x 28 x 6 3954 & Thomough talpoides fossos 108gm 208×58×27×6 3955 \$ 2 " 145 200 x 8/x 3/x 16 39 \$6 4 Enterior minimus operarius 2/ dm 3957 9 Mesotice longicandus mordax 94x 70x 20x15 53 gum. 3958 4 156 × 54 × 19 × 12 29.5 gm 3959 8 182×59×20×14 4) gum 3960 83 knyfut 5 gruz 6 Chebroke (3 gurs tretter 6 - , some fat 3962 8 30per prince 218×127×31×17,249. teterme unature. some fat! 214 × 130 × 30 × 15 219-texts 5m, little fot, his not prime 208 / 32 × 29 × / 3 229 3963 4 3964 8 3965 & Steller Joy 180 grus

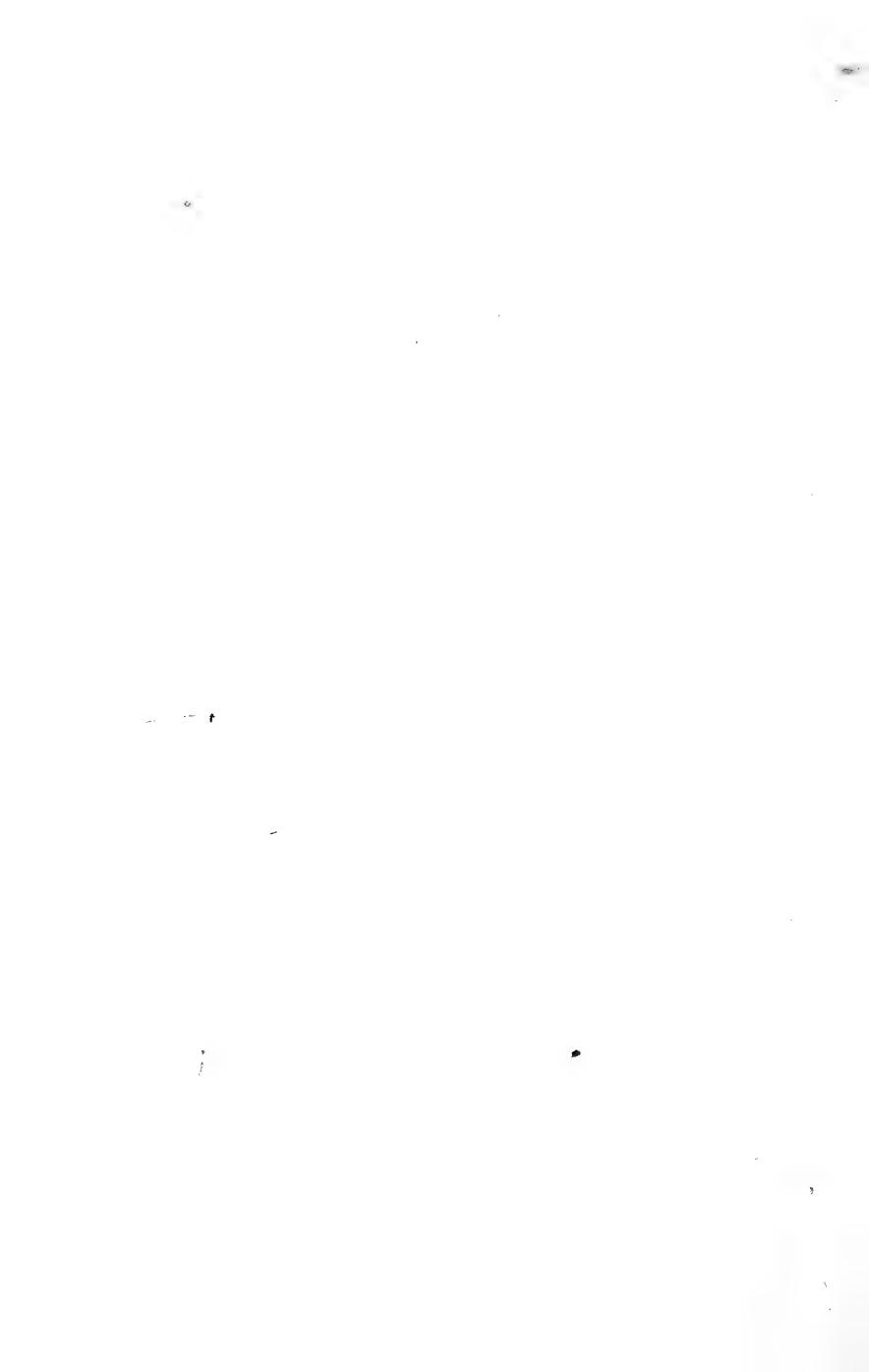


62

P. PEARSON 1952

3966 & Lorep vagraus montreola 1 guz. regulat 1/2×47×13 3967 & 30/price princeps princeps 205 × 124 × 29 × 12 225 × 133 × 32 × 12 Trubas book Nologe 12,500 St. Riv avila Co sept 2 Sorp vagraus monticola 106 × 46 × 12 6=2 3970 & Devolute 57gm. 3971 52 gue 3972 4 " 55 grus 3973 Thunk 31 gra 3974 ? 30 gm 3975 & Gronse 1-6-lhs Truebookenh, N slope 12,000ft, 3976 3 Thursh no fot. about 12,300ft whom your. 3977 & Estamas minimus operaries 203 x88 x 31 x 15 49 gm. 6 mi E Tuchas, 10,000 ft., Rio auriba Co 3978 8 30pma princeps princeps 212 > 126 + 30 - 14 24 gm. 16 mi. VE Pojvoque 8750ft Soute Fe Co. N.M. Self-9 3979 3 Love vagions monticola 107 X 48 x 12 x 7 5 gms. 3980 2 Assertive Phenacomys 744×33×18×15 35 gm 3981 & Keromysen maniculatus 158×68×18× 20 249 14 2 3982 3 Eptesins procus pallidus 112 x 44 x 10 x 17 fox 3983 & my otra volans interior 96×42×9×14 fax 178×44×27× 9E

3984 & Thomoungs talfoides fossor



EXCH.

COLL.

16 mi NE Pojosque, 8750 ft., Santa Fe Co., N.M.

39858 Eptisiens fuscus pallidus 3986 3 Warbler 3987 8 muthatel

119×47×11×17 : 6 gurs. togun. 10 z gwo

3988 3 Muthatch 3989 3 " 3990 & Woodpeeher 3991 & Fliker 3992 & Kinglet 3993 Warter

10 gus. 10gus. 56 ± gm 124 gma. 7 gms.

3994 & Microtin 3995 & Zapine princeps princeps 3946 & Perouspen maniculatus 3997 & Thurch 3998 & Jopaneles 3999 & Seivene aberti aberti 4000 Woodparker

162× 54×20×13 208×127×30×13 24 you 143x66 = 19x 18 14gm 30 gu 51 gm 460×206×66× 43 1.3 16 64 gm

4001 9 Perompens true ? 186 x 96 x 22 x 23 29gm 4002 o Mestoron mexicana fallax 298×127×35×27 121gm 4003 9 Entrios minimus operarius 207 x 88 x 30x 17 44 gus 4004 8 Perougaens manicipaters 4005 8 Woodpeaker 159 × 67 × 19X 18 66 gms. tistia 4 mm 4006 & Enterior minimus ofserains 205 × 86 × 30 × 16 50 gm 4000 & Collospersofshirs 267 × 77 × 42 × 17 203 Jun

•				
	•			
			•	
			•	

Justa 7mm 345×17×91×64 4009 3 Eylinleyna mittalli finetis 1.3 lh. 4010 & Sedeform 6 enle 157×67×20×19 4011 & Peronyene manualatur 4012 of Lefono Sylvelagus muttalli pinetiz 73×27 × 103×66 1.5 els. 4013 8 Perongan maniculatura 137165119117 1 mi. 5 Bernardo, 5000 ft, Scorro Co., N.M. 20pt.14 no ent 4014 Flerongesso lencopus 4014 Florogeon lencopus 172×84×23×17. 4015 & Myotis yumanensin yumani 72×31×9× 14 techo 13 317 8 gm. 4016 & Revongson lencopus 169481722~17 299. 40177 Gerompeus leucopus 181 × 82 × 21 × 17 the tresin 172 × 85 × 22 × 16 359. 40183 Perompous leucopus 25 gm water 8m 4019 & Reithrodontomp megalotis megalotis 3/2 70x 18 × 14 11gm 4020 & Lyrodon hispidus berlandieri 249 × 103 × 29 × 19 87 Orinda, Contra Costa Co, Catif spening for after 1st round season. Tota 12 m long experient deriver after 1st round season. The 12 m long experient deriver der deriver deriver deriver deriver deriver deriver der deriver deriver der deriver der deriver der deriver der d 4021 of Ensatura 4022 8 gord 8 x 1:2, white uniform. a four gomal division but no sperment sanddog of rain. crossing rood in every 5 V 6 5 m. one 7 m. [0.7 m.] take 5 m., wrend mite melanopelous, 5 V 5 9 m. looks 2 - looks . Elected melanical 402 72 aveides 4024 0 lite, follo. hardly discernite 3 V 69 min first distintly grender after 40264 5 × 74 follies bysather above, some about 2 ring outh starter, im, and pole

peoch instead of white.

	,	
		Λ.

D. P. PEARSON

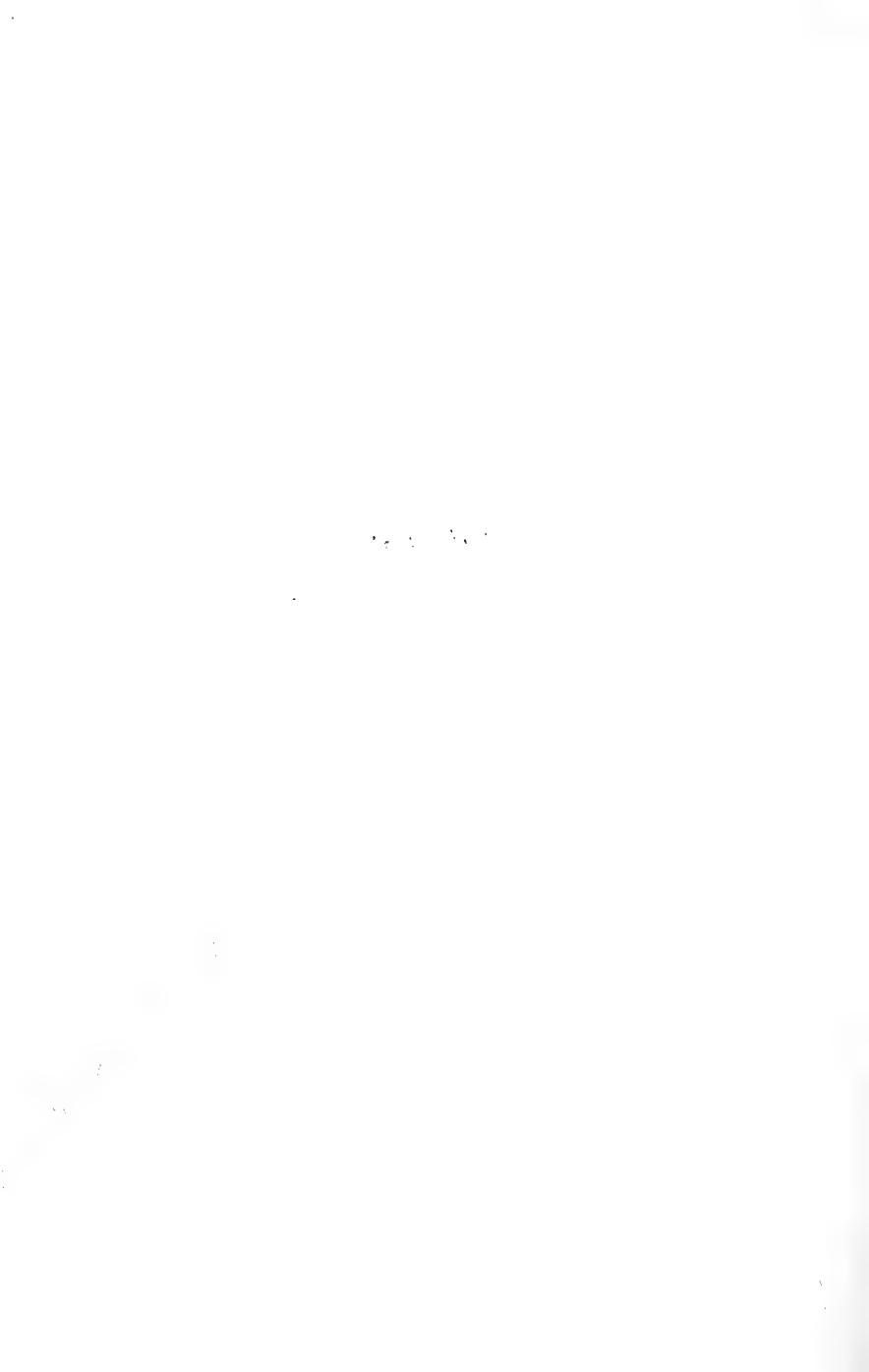
4027 Fritum

Mon-14 many sperm, no mituser sun 5V 79 m. Teatra que

March 25

4028

Chinchila langer 405×135×6/×50×50 C Capture from Dr. D.W. Vanasen, 1963 4th and, Son Drego, via Dr. Melson Walles Testes atrophed Testie 17 - 18 th section 3 weeks and should not opera or activity. Son. ves. 30 mm but much thines than in viscoula. The section of the south thines



P. PEARSON

Ford Point, fanta Wosa Poland, Feb. 9, 1954 Calif.

4029 Persongsens manuscripture 177×87×20×19
Tropped Feb. 3 by some Rosenthal, fronget home
alme. Killed Feb. 9.

4030 8

156×78×20×19

miller's colin, clear John, John Co., Caty.

4031 9 myotis

74×31×8×13

from P. Blockel

May 10, 1955.

4032 8 Epterin

anotralia, aneensland, near Windorah armed dead in sufferent from Peter Morrison

may 26, 1955 4033 morseford monde (lettersonge Smith of six landfants)

32 mi. N. San Rafoel, Main Co, Caly.

4034 8 Renthrodonting ramientra 4035 8

160 x 82 x 172 x 16 10.2 g.

150x 74 × 17 x 14 10.49.

150 + 75 × 17 × 14 10.0g.

4036 4

		. 3
		- 6

Journac

Journal

Sept. 3 6 mi. E Truckaa, 10,000ft, For Co, Mem Mejico. Left Santa Fe about 10 a.m. after tollang to Maloural Vara Serve people and to motion Forest Holyton both of whom were little belgion directing us to high country. book a rod into the Lange of Cristo interes that letters the pinon-junger, yellow pino, for, then stoffeed a till beyond Borrego (end of rood in yallow fine. Dodn't seem to be very high nor near the high seales, so went out again and in to rook towards Truebas beach from the town of truedor. This road goes up a wee little cangon with strangelow fine into for - spruce aspen. Wode camp near a wet weadow at end of road in fir, spruce, aspen. a few moccupied log calins Les and fields of voits?, houly? under? Trotaloes, and a legume. attitude (by attimeter) songs (0,000ft, pine of older. several bats flew up caryon at dest, must of them flying straight. Shot one, a volais? a Joesbyrting som nothing, Fall moon, clear. Put and about 24 Museum Speciale down an alder tribale, acors a net medow, and doing the edge of spine - aspen. Seft 4 Caught I love and 3 Micetus overight. Let 5 goplar trefs in the morning and 2 street traffs. During the day cought two chipmuchs, & gophere, and 5 Ministers. But shooting again at dusk and got 2 Mystis and I not get retrieved. Temp. 41° at 5:45 a.m. a few Minter in traps plus (chipmuch. Day mastly

Army. Walked about I wind in the causer. Chilester more

		.R

demodet them I have ever seen; also many chilements.

Veyetation still thethe fir, sprace, alder, asken.

Money treplier to wet weadow below comp and along stream in water shew sets — about 30 trape.

Bots ogain at duck but draw's get any.

Sept. 6 3 zopus in wet woodow and 2 severtina, no skeme er l'erompeux dest et 10:30 for mas acriba. Went up our drawings for 3 2 love and found myself on a thinly forested peak but reparated from Truchus Head by a soddle of at least 500ft drop. The ridge to the west of campor the drawings beyond that would have taken me up to Truckas People a Mry people had an estimated allitude of 12,500 ft. and was mostly fragmented quarty growing to speciel and some fir, a few aspens still, set 30 museum aperies in stelly rocky chite growing to brood legted affine flowers and 14 of cross-country in open spruce burn. The chute had draffings fivodrats in the cliffs on the side and holes, cuttings, and tiny drofflings of some peculiar & sinceotine? in the Leuse flowers. Birds seen: grance (numerous) through, grasteck, proce, chiesder and robin (beard), chipment and disharel almost at tops Myth didn't seem any colde than in our comfot 10,000/1.

Seft of he traps 2 Perouspeve manner latine and one Sorep.

Seft for home about 7:30 a.m. Traff line at home had! chiffment,

2 yappur, about 3 Universities and 1 Peromyseurs. Dest of day

shing



P. PEARSON

Lefst 8 Kn my trafter in the woodow I chifement, 3 Mercestra, and I wore Jufar. Picked up all and world comp to 16 mi. NE Pojvaque. This is on the Borrego road in Cordon, Camps in yellow-pira near a meodour Some fir and spruce, so probably appropring upper edge of transition. altimater says 8750 fts but out 40 miseum affecials along a dital down the center of the modern. Meddow is sparce great of flowers (dry) plus much wild rose about 2 ft latt. Ditch unth occasional patelos of willow, grengens, and our clumps of asken unte rose understory. Some nouse sign. * Soft of Trapa feld 23 Perompeus, I doub, I short-tailed Merotina. Later in the day a cliffment and Bat stooting at chief another shew. yelded 2 Eptering 1 smyotis ? volone? Jorshighting som nothing ! Jeft tras un somo beatrons Trafts bod 8 Perompus, 1 sheen. Light rain in aftern. Est Left trap his out and put out 6 schuylers for woodrate along a rock outeroffing where there were 2 lorge aumulations of rat droffbuys. Olso poreufrus droffburgs and girdled yellow fines Trofskeld 1 Soreh (sturbo), 2 Merotus longiandus, ? perorugaene, and 1 3 offers. The zopus in the dry ditch inthe treadour - sporse gran, annuals, und rose, millow champs, aspen further down. Part gore from several of the Schuger's - Perompeno? . Prebed of the medousting and put it slove jence row follow field of worlds.

			•
•			
			,
	*		
·			

Softiz 10 Perouspeur and 2 chipmenter in the fallow field line. Many ofring + empty in front of large boles, prelably Callosperusphille and while I shot mearly in a jumper buch. One rather in a stat trap set in front of a hurrow and one Mestorna in the Lahnylers along the rocky cliff also a true there. Kulled of the follow fell live and put 12 of their along the cliff to relieve pressure on the Selingters. Hart row at heatterns. Seletis Only Persongens of at the chiff. a young soon-shoe has at the same furrour as yesterday's robbits Broke compat q:00 a.m. and drove to Bernardo, 50 mi. S. of albeguerque, 4700ft, along the Kor Grande. Compred in the "childrene" or donle-hunting shock (one-room seloulhouse) of adrey Borellat 4 pm. Put out about 35 trupe in thele present near the mer, westly on land sometimes flooded; some grass cover and gellowflowled weed. all sets for Zoffers, a few buts at dush, got one suyothe ? rellifer? Soft 14 Leven berongsen in the trafes, probably lengters but no zapen. Inde of hope and word them to attitle grass weadow with a few moude growing to mesquite. odded 20 shermon bire tate found in Borrell'a calin.

also set 2 mindent trats. Muserous coon

tracks and? mind?

Mor. 12 Orinda. First rain of season fell about 10:30 a.m.,
then scattlest heavy showers rest of day. Season
is late this year. Since this was first rain, and a good
one, it provides an unavally clear cut beginning to
the rainy season. When I went home at 6:30 fm
ones Frel Reach Hol pecked up 100 Envention (4021) and
after supper 4 & ? along Mines Hol.
Mon. 13 Orinda. Heavy rain again off ton during the day. Drave
about & mines of Mines Hol. after suffer and seched up
4 aneidle, 2 Envention, and 5 Tritumes (at least 2 of
them torosus)

			ı
	:	r	
		8	
			,
÷.			
·			

Feb. 20 Port out obout 30 line trops, along Turnel Ad, Orinda, overver from Charles Hill Ad. Weedy putch. Some lindered of mice, especially eating teased leaves.

Row them in afternoon and had 3 minerature and 1 mins.

Tentrops across from Charton Leave Church bod 1 minsters.

Tribed these up but left others.

Feb. 21 In a.m. had 3 more Muerotice, I more Mun, and Mine Reithroa.

Feb 28. Put about 45 line tripe in weedy place (gracecommin) on Orinda side of ridge along Purepuration Point road. Not much sign.

Feb. 29 Cought 8 beromysene, 2 heithro 2 Mirerature.

Mrach 6 with blocked + Seelletner to Marin & at wow

set 104 trutes (mothy line but some surge) at

the worsh 3 = in NE truth of the rook 1 sum.

32 at the holf-woon worsh south of the rook 1 sum.

E of conto Modera. Sooked on the brook next

fto Rente 101 at conto Modera and build

quits a but of Mirestra sign. Most as much sign

as last year, but flesty. Pretty good

sign at the other place also.

han trops at Son fafool worsh at 4 and 7 fm.

movel? Prehod up trefte ? a.m. Total serie: 42 / mention

·			
			•

SPECIES ACCOUNT BIRD

	•	١

Species accounts - anna Jelummigbird Sept, 27, 1954

,
\

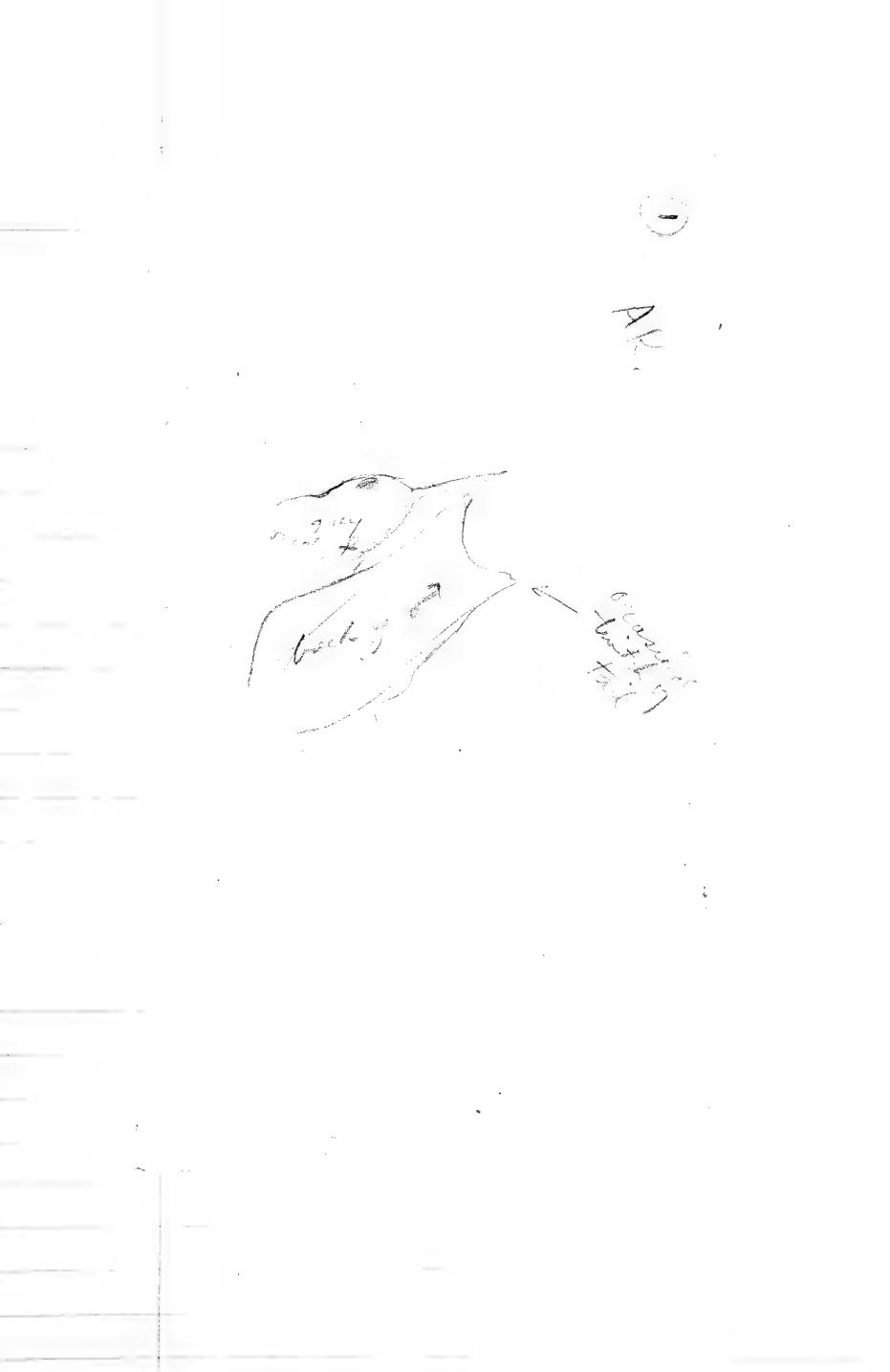
Offerson 1954

arma Humghist

Seft 27 Orista - 7:45 a.m. PST. Two arma hrungbride sgrabbling ver freher outside better midou. Frequent vertical disching by both finds close together, besting their migs ogainst rochatter (flying stowly straight of, wit spirally, usually untiles a foot of earlotter, some squeaking. Jooksed bles a territorial diffinte efect for the slow towering (sometimes 30 feet or more) and use of a single pureled, & second long whethe loved that sounds ble a soft version of the dive note. One bind was of, other assured to be wold first but later officered to be q. after numerous (6-10?) Cowerings and some tumblings together they fell to the grace and after frief fluttering remarked great. I lay on her bock, wings outstretched, bill pointing up; or unth back who, lying slightly crosswide on der mings outstretched, his full lying on her primarile or privally men holding them. I was watching though porch seven at 8 feet, auto at 18 felt with procedure. Birds renaured there for 9 minutes, the 9 not morning, the of poleoting (rungs told moving rhythindly) occasionally. When a spoeron appeared and hofefeel a few feet anon they separated and resumed towering. after about 3 tonerings and a few tumber (whee onto the ground for several seconds) they trubbed to the ground for 3 more minutes, I as before, or directly on top of her with

rungs outstretched, Three lines the of fulltred her may as though to rise, but of drove her down (laft fer down), testing he ways. Frolly she folse fre slowly one the walland could not be relocated the offen slowly to the freham 3 feet away, whitting softly larded on frehing and pleased friefly, then fel and resured his verol pereling. 9:05 Finale come into Ateritory. He gave teristoral chatter, then approved her closely and Soved about 1 to 2 pt. four har, of gen this plantine cry. He flew off (AKE) They wood no sounds while on the ground.

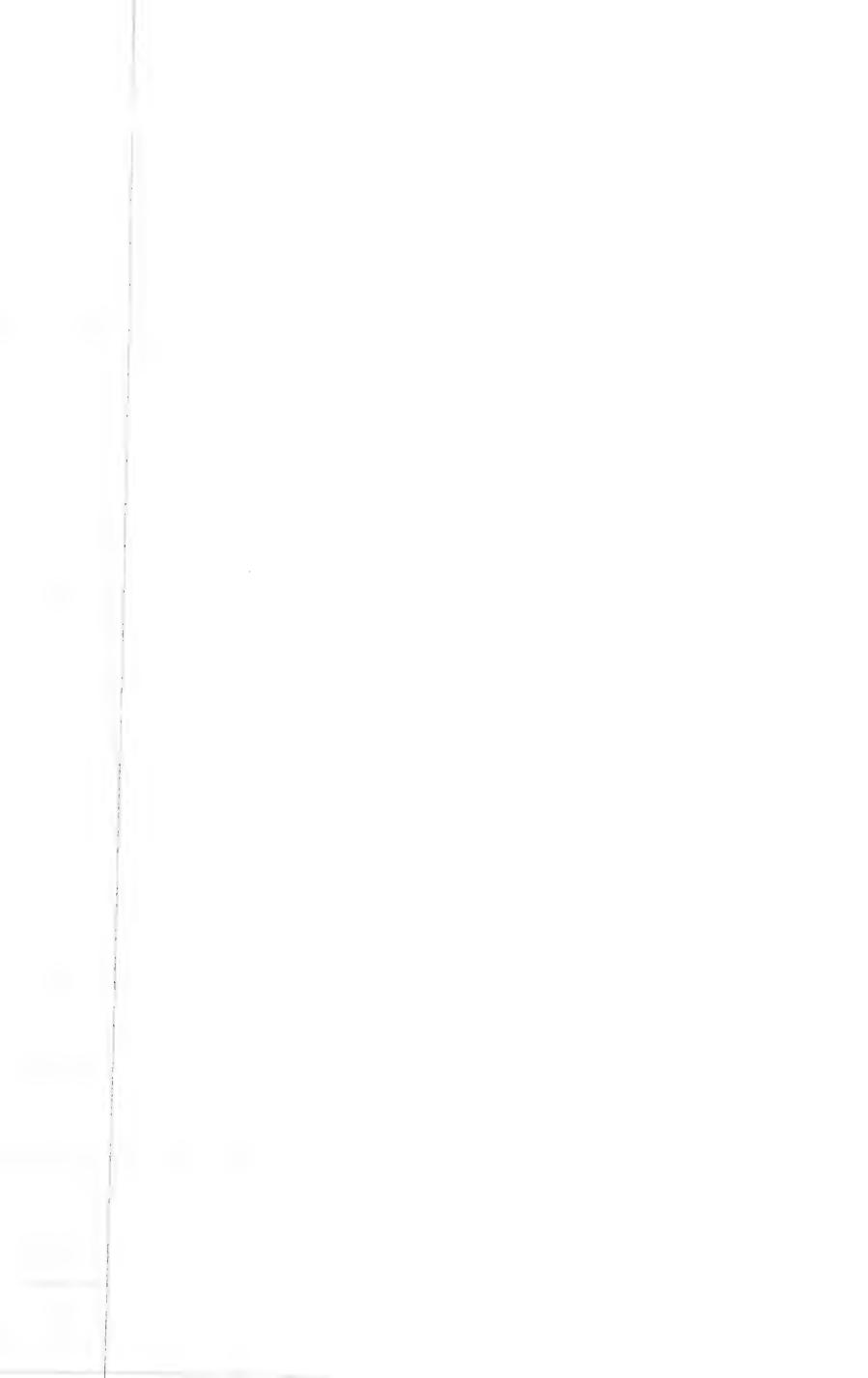
	·			
			j	
		•		



1
,
·
١



	·		
			,
•			
			·
		1	
			,
	*		





			•
	•		



				The second secon	California.
				•	
		*	•		
					iii \$.
			11		
		p 6 ·			
		*			
			n'i m		
			N.		
		-			
			_		
		•			
			F		
	•				
		•			
		-			
			N. C. W.		
					·)(·
		· *			
					-
			· ·	50	
101				est o	

			2.7.3.7.6
			- 15 - 15 - 15 - 15
		•	
•			
			•
			3.3
		11/1/20	

115		
* 1		
1887		
W. Wales		
		*
		•
一种 意。		
Both II		
	100	
William.		
- E		
13- 76		
10 - 10 -		
ATT THE		
THE TAKE		
100		
		- T
		•
A Zero		

